

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
ExxonMobil Oil Corporation

AUTHORIZING THE OPERATION OF
ExxonMobil Beaumont Polyethylene Plant
Beaumont Polyethylene Plant (BPEP)
Plastics Material and Resin Manufacturing

LOCATED AT
Jefferson County, Texas
Latitude 30° 3' 58" Longitude 94° 13' 49"
Regulated Entity Number: RN100211903

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: 02277 Issuance Date: _____

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts A, DDDDD, FFFF and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to

30 TAC Chapter 113, Subchapter C, §113.100, §113.1130, §113.890 and §113.1090, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that

does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is

determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer

visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- F. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

- (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(a)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements:
 - A. Title 30 TAC § 115.145 (relating to Approved Test Methods)
 - B. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
 - C. Title 30 TAC § 115.147(1) (relating to Exemptions)
 - D. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
- 6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
 - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)
- 7. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

8. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
 - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
 - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
9. For facilities where total annual benzene quantity from waste is less than 1 megagram per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
 - A. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(5)(i) - (ii), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - B. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - C. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.357(a), and (b) (relating to Reporting Requirements)
10. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
11. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
12. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

13. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
- A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall comply with either of the following requirements for any capture system associated with the VOC control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions:
 - (i) Once a year the permit holder shall inspect the capture system in compliance of CAM for leaks in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppm above background or as defined by the underlying applicable requirement; or
 - (ii) Once a month, the permit holder shall conduct a visual, audible, and/or olfactory inspection of the capture system in compliance of CAM to detect leaking components.
 - F. The permit holder shall comply with either of the following requirements for any bypass of the control device subject to CAM. If the results of the following inspections or monitoring indicate bypass of the control device, the permit holder shall promptly take necessary corrective actions and report a deviation:
 - (i) Install a flow indicator that is capable of recording flow, at least once every fifteen minutes, immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
 - (ii) Once a month, the permit holder shall inspect the valves checking the position of the valves and the condition of the car seals. Identify all times when the car seal

has been broken and the valve position has been changed to allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere.

- G. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
- 14. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

- 15. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the permits by rule identified in the PBR Supplemental Tables in the application), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
- 16. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
- 17. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

18. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
19. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
 - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
 - (i) For sources in the Beaumont-Port Arthur Nonattainment area, 30 TAC § 117.9000
 - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.150(c) and (c)(1).
20. Use of Emission Credits to comply with applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
 - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
21. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115

- (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

Risk Management Plan

22. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

23. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.
 - B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.

Permit Location

24. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

25. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
07BLR_001	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
07BLR_001	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
07BLR_002	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
07BLR_002	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
07CMNHP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-10	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
07CMNHP	CHEMICAL MANUFACTURING PROCESS	N/A	63FFFF-2	40 CFR Part 63, Subpart FFFF	No changing attributes.
07CMNLP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-8	30 TAC Chapter 115, Vent Gas Controls	Control Device Type = Smokeless flare
07CMNLP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-9	30 TAC Chapter 115, Vent Gas Controls	Control Device Type = Direct flame incinerator in which the vent gas stream is burned at a temperature or at least 1300° F (704 C).
07CMNLP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-3	40 CFR Part 63, Subpart FFFF	Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a non-flare CD is being used to meet a ppmv standard per § 63.2455(a) -

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					<p>Table 1.1.a.i., Hal Device Type = No halogen scrubber or other halogen reduction device is used., Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or have not been requested., Formaldehyde = The stream does not contain formaldehyde., Bypass Line = No bypass lines., Prior Eval = The data from a prior evaluation or assessment is not used., CEMS = A CEMS is not used., Designated Grp1 = The emission stream is designated as Group 1., Small Device = A small control device (defined in § 63.2550) is not being used., Designated Hal = The emission stream is not designated as halogenated., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., SS Device Type = Incinerator other than a catalytic incinerator., Meets 63.988(b)(2) = The control device does not meet the criteria in § 63.985(b)(2)., Determined Hal = The emission stream is determined to be non-halogenated., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver is requested.</p>

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
07CMNLP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-4	40 CFR Part 63, Subpart FFFF	Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Determined Hal = The emission stream is determined to be non-halogenated., Designated Grp1 = The emission stream is designated as Group 1., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Designated Hal = The emission stream is not designated as halogenated., Prior Eval = The data from a prior evaluation or assessment is not used., Bypass Line = No bypass lines., Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or a waiver has not been requested.
07CTL_001	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-6	40 CFR Part 63, Subpart FFFF	No changing attributes.
07FLR_001	FLARES	N/A	R1111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
07FLR_001	FLARES	N/A	60A-001	40 CFR Part 60, Subpart A	No changing attributes.
07FLR_001	FLARES	N/A	63A-001	40 CFR Part 63, Subpart A	No changing attributes.
07FLR_002	FLARES	N/A	R1111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
07FLR_002	FLARES	N/A	60A-002	40 CFR Part 60, Subpart A	Heating Value of Gas = Heating value is less than or equal to 1000

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					Btu/scf (37.3 MJ/scm).
07FLR_002	FLARES	N/A	60A-003	40 CFR Part 60, Subpart A	Heating Value of Gas = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm)
07FLR_002	FLARES	N/A	63A-002	40 CFR Part 63, Subpart A	Heating Value of Gas = Heating value is less than or equal to 1000 Btu/scf (37.3 MJ/scm).
07FLR_002	FLARES	N/A	63A-003	40 CFR Part 63, Subpart A	Heating Value of Gas = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm).
07MCPU	CHEMICAL MANUFACTURING PROCESS	N/A	63FFFF-5	40 CFR Part 63, Subpart FFFF	No changing attributes.
07TOTES	STORAGE TANKS/VESSELS	N/A	R5112-0006	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07VNT_001	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-11	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
612-101116	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-151115	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-151116	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-C22457	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4704	STORAGE TANKS/VESSELS	N/A	R5112-0132	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
612-D4718	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4723	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4725	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4749	STORAGE TANKS/VESSELS	N/A	R5112-0132	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4749	STORAGE TANKS/VESSELS	N/A	60Kb-0081	40 CFR Part 60, Subpart Kb	No changing attributes.
612-D4752	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4754	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4758	STORAGE TANKS/VESSELS	N/A	R5112-0132	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D4758	STORAGE TANKS/VESSELS	N/A	60Kb-0081	40 CFR Part 60, Subpart Kb	No changing attributes.
612-D646	STORAGE TANKS/VESSELS	N/A	R5112-0132	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D647-1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D647-2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D652	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-D652	STORAGE TANKS/VESSELS	N/A	63FFFF-2	40 CFR Part 63, Subpart FFFF	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
612-D670	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F102	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F108	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F109	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F5959	STORAGE TANKS/VESSELS	N/A	R5112-0006	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F670	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F676	STORAGE TANKS/VESSELS	N/A	R5112-0010	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F706	STORAGE TANKS/VESSELS	N/A	R5112-0010	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F710	STORAGE TANKS/VESSELS	N/A	R5112-0010	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
612-F714	STORAGE TANKS/VESSELS	N/A	R5112-0097	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is greater than or equal to 1.5 psia, Tank Description = Tank using a vapor recovery system (VRS), Control Device Type = Flare
612-F714	STORAGE TANKS/VESSELS	N/A	R5112-1	30 TAC Chapter 115, Storage of VOCs	True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia, Tank Description = Tank does not require emission controls
612-F714	STORAGE	N/A	R5112-2	30 TAC Chapter 115,	True Vapor Pressure = True vapor

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	TANKS/VESSELS			Storage of VOCs	pressure is less than 1.0 psia, Tank Description = Tank does not require emission controls
701	FLARES	N/A	R1111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
701	FLARES	N/A	63A-001	40 CFR Part 63, Subpart A	No changing attributes.
701	FLARES	N/A	63FFFF-1	40 CFR Part 63, Subpart FFFF	No changing attributes.
701V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-8	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
721	FLARES	N/A	R1111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
721	FLARES	N/A	60A-001	40 CFR Part 60, Subpart A	No changing attributes.
721	FLARES	N/A	63A-001	40 CFR Part 63, Subpart A	No changing attributes.
721	FLARES	N/A	63FFFF-1	40 CFR Part 63, Subpart FFFF	No changing attributes.
721V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-8	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
858	FLARES	N/A	R1111-001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
858	FLARES	N/A	63A-002	40 CFR Part 63, Subpart A	No changing attributes.
858	FLARES	N/A	63FFFF-1	40 CFR Part 63, Subpart FFFF	No changing attributes.
858V	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-8	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
863	STORAGE TANKS/VESSELS	N/A	R5112-0019	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
863	STORAGE TANKS/VESSELS	N/A	60Kb-0068	40 CFR Part 60, Subpart Kb	No changing attributes.
AT360	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
AT361	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
B-4901	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
B-4902	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-2	40 CFR Part 63, Subpart DDDDD	No changing attributes.
B-4903	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-3	40 CFR Part 63, Subpart DDDDD	No changing attributes.
B500	PROCESS HEATERS/FURNACES	N/A	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
DEGR4	SOLVENT DEGREASING MACHINES	N/A	R5412-001	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
DEGR6	SOLVENT DEGREASING MACHINES	N/A	R5412-003	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
F-7001	STORAGE TANKS/VESSELS	N/A	R5112-0006	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
F-711	VOLATILE ORGANIC COMPOUND WATER	N/A	R5137-001	30 TAC Chapter 115, Water Separation	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	SEPARATORS				
F-712	VOLATILE ORGANIC COMPOUND WATER SEPARATORS	N/A	R5137-001	30 TAC Chapter 115, Water Separation	No changing attributes.
G-650	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
G-650	SRIC ENGINES	N/A	63ZZZZ-002	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-BOILER	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B700, B700A, B704	63DDDDD-2	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRPDRUMVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	D-128, D-228, D- 3328	63FFFF-G1CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPEENGINE	SRIC ENGINES	M-701, M-705, M- 706	63ZZZZ-001	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRPEXLDPE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	104, 204, 307, 604, 605, 606, 607, 608, 609, 615A, 615B, 615C, 618, 619, 620, 621, 627, 628	R5121-3	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPFINVNT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	07GPS_001, 07GPS_002, 07GPS_003	R5121-11	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPFINVNT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	07GPS_001, 07GPS_002, 07GPS_003	63FFFF-5	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPFTO	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	07TOX_001, 07TOX_002	R1111-002	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPLOAD	LOADING/UNLOADING OPERATIONS	F-706LOAD, F- 714LOAD	R5211-001	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPLPTANK1	STORAGE TANKS/VESSELS	612-F4706, 612- F6640A, 612- F6640B	R5112-0006	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPLPVENT4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	401, 423, 424, 429A, 429B, 429C, 429D, 429E, 429F	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPLPVENT6	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	641A, 642A, 642B, 642C, 642D, 642E, 642G, 642H, 643, 645, 650, 651, 652, 653, 654AB, 655AB, 656, 657, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 686, 687, 688, 689, 690, 691, 692, 695, 696, 697, 698, 699	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPLPVENT8	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	817, 819A, 819B, 819C, 819D, 819E, 821, 845, 850, 851, 854, 855, 861, 862, 866, 867, 868, 869, 870, 871, 872, 873, 878, 879, 884, 886, 889, 891	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPLPVENT9	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	900, 910, 911, 924, 925, 926, 927, 928, 929, 930, 931, 944, 945, 946, 947, 948, 949, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 973, 991, 992, 993A	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPSTORVNT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	07LDS_001, 07LDS_002, 07LDS_003, 07LDS_004, 07LDS_005, 07PPS_001, 07PPS_002, 07PPS_003	R5121-11	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPSTORVNT	POLYMER MANUFACTURING PROCESSES	07LDS_001, 07LDS_002, 07LDS_003, 07LDS_004, 07LDS_005, 07PPS_001, 07PPS_002, 07PPS_003	60DDD-CVU1	40 CFR Part 60, Subpart DDD	No changing attributes.
GRPUNLOAD	LOADING/UNLOADING OPERATIONS	RAIL-LOAD2, RAIL-LOAD3, RAIL-LOAD4, TRK-LOAD1, TRK-LOAD2	R5211-002	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
HP-ENG-003	SRIC ENGINES	N/A	60III-2	40 CFR Part 60, Subpart IIII	No changing attributes.
HP-ENG-003	SRIC ENGINES	N/A	63ZZZZ-003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HP-ENG-004	SRIC ENGINES	N/A	60III-2	40 CFR Part 60, Subpart IIII	No changing attributes.
HP-ENG-004	SRIC ENGINES	N/A	63ZZZZ-003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HP-ENG-006	SRIC ENGINES	N/A	60III-3	40 CFR Part 60, Subpart IIII	No changing attributes.
HP-ENG-006	SRIC ENGINES	N/A	63ZZZZ-004	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HPFUG	FUGITIVE EMISSION UNITS	N/A	R5352-1	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
HPFUG	FUGITIVE EMISSION UNITS	N/A	63FFFF-3	40 CFR Part 63, Subpart FFFF	No changing attributes.
LINE 45	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-G1CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
LINE 60	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-G1CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
LINE44	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-G1CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
LPFUG	FUGITIVE EMISSION UNITS	N/A	R5352-1	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
LPFUG	FUGITIVE EMISSION UNITS	N/A	60DDD-ALL	40 CFR Part 60, Subpart DDD	No changing attributes.
LPFUG	FUGITIVE EMISSION UNITS	N/A	63FFFF-1	40 CFR Part 63, Subpart FFFF	No changing attributes.
M-4799	SRIC ENGINES	N/A	60III-1	40 CFR Part 60, Subpart IIII	No changing attributes.
M-4799	SRIC ENGINES	N/A	63ZZZZ-001	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
M5PAINT	SURFACE COATING OPERATIONS	N/A	115E-01	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
PROLDPE	CHEMICAL MANUFACTURING PROCESS	N/A	63FFFF-6	40 CFR Part 63, Subpart FFFF	No changing attributes.
PROLPMR	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-CVCF	40 CFR Part 60, Subpart DDD	Process Emissions = Individual vent gas streams emit continuous emissions., Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Flare., Annual Emissions Entering the Control Device = Annual emissions entering the control device are greater than or equal to the calculated threshold emissions levels calculated in Table 3., Table 3 Control Requirements = Calculations from Table 3 require controls., Emission Reduction from Control Device = Existing control device (as defined in 40 CFR § 60.561) reduces emissions by 98 percent or greater, or exit concentration is 20 ppmv or less.
PROLPMR	POLYMER	N/A	60DDD-IVCF	40 CFR Part 60, Subpart	Process Emissions = Individual vent

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	MANUFACTURING PROCESSES			DDD	gas streams emit intermittent emissions., Emergency Vent = Emissions are not an emergency vent stream from a new, modified, or reconstructed facility., Existing Control Device = The vent stream is controlled in an existing control device (as defined in 40 CFR '60.561) which has not been reconstructed, replaced, or its operating conditions modified as a result of state or local regulations., Intermittent Control Device = Flare.
PROLPPF4AB	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-CVCF	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Flare., Annual Emissions Entering the Control Device = Annual emissions entering the control device are greater than or equal to the calculated threshold emissions levels calculated in Table 3., Table 3 Control Requirements = Calculations from Table 3 require controls., Emission Reduction from Control Device = Existing control device (as defined in 40 CFR § 60.561) reduces emissions by 98 percent or greater, or exit concentration is 20 ppmv or less.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PROLPPF4AB	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-CVU1	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are less than 1.6 Mg/yr (1.76 tpy)., Control of Continuous Emissions = Vent gas stream emissions are not controlled with an existing control device (as defined in 40 CFR § 60.561).
PROLPPF4AB	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-CVU2	40 CFR Part 60, Subpart DDD	Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Control of Continuous Emissions = Vent gas stream emissions are not controlled with an existing control device (as defined in 40 CFR § 60.561)., Table 3 Control Requirements = Calculations from Table 3 do not require controls.
PROLPRMP	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-CVCF	40 CFR Part 60, Subpart DDD	Modified after Applicability Date = The affected facility has been modified or reconstructed after its applicability date., Table 2 Threshold Emission Rates = The uncontrolled emission rate is greater than the uncontrolled threshold emission rates in Table 2 of 40 CFR § 60.560., Process Emissions = Individual vent gas streams emit continuous emissions., Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					greater., Control of Continuous Emissions = All continuous emissions are controlled in an existing control device (as defined in 40 CFR § 60.561)., Continuous Control Device = Flare., Annual Emissions Entering the Control Device = Annual emissions entering the control device are greater than or equal to the calculated threshold emissions levels calculated in Table 3., Table 3 Control Requirements = Calculations from Table 3 require controls., Emission Reduction from Control Device = Existing control device (as defined in 40 CFR § 60.561) reduces emissions by 98 percent or greater, or exit concentration is 20 ppmv or less.
PROLPRMP	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-IVCF	40 CFR Part 60, Subpart DDD	Modified after Applicability Date = The affected facility has been modified or reconstructed after its applicability date., Table 2 Threshold Emission Rates = The uncontrolled emission rate is greater than the uncontrolled threshold emission rates in Table 2 of 40 CFR § 60.560., Process Emissions = Individual vent gas streams emit intermittent emissions., Emergency Vent = Emissions are not an emergency vent stream from a new, modified, or reconstructed facility., Existing Control Device = The vent stream is controlled in an existing

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					control device (as defined in 40 CFR ' 60.561) which has not been reconstructed, replaced, or its operating conditions modified as a result of state or local regulations., Intermittent Control Device = Flare.
PROLPRMP	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-IVU	40 CFR Part 60, Subpart DDD	Table 2 Threshold Emission Rates = The uncontrolled emission rate is less than or equal to the uncontrolled threshold emission rates in Table 2 of 40 CFR § 60.560., Process Emissions = Individual vent gas streams emit continuous emissions., Uncontrolled Annual Emissions = Uncontrolled annual emissions are 1.6 Mg/yr (1.76 tpy) or greater., Weight Percent TOC = Weight percent of total organic compounds is 0.10% or greater.
PROLPRX60	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-EV	40 CFR Part 60, Subpart DDD	Table 2 Threshold Emission Rates = The uncontrolled emission rate is less than or equal to the uncontrolled threshold emission rates in Table 2 of 40 CFR § 60.560., Emergency Vent = Emissions are an emergency vent stream from a new, modified, or reconstructed facility.
PROLPRX60	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-IVCF	40 CFR Part 60, Subpart DDD	Table 2 Threshold Emission Rates = The uncontrolled emission rate is greater than the uncontrolled threshold emission rates in Table 2

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					of 40 CFR § 60.560., Emergency Vent = Emissions are not an emergency vent stream from a new, modified, or reconstructed facility., Existing Control Device = The vent stream is controlled in an existing control device (as defined in 40 CFR ' 60.561) which has not been reconstructed, replaced, or its operating conditions modified as a result of state or local regulations., Intermittent Control Device = Flare.
RAIL-LOAD1	LOADING/UNLOADING OPERATIONS	N/A	R5211-003	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
07BLR_001	EU	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(i)	§ 60.48c(a)(1) § 60.48c(a)(3) § 60.48c(a)(4)
07BLR_001	EU	60Dc-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(i)	§ 60.48c(a)(1) § 60.48c(a)(3) § 60.48c(a)(4)
07BLR_001	EU	60Dc-1	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(i)	§ 60.48c(a)(1) § 60.48c(a)(3) § 60.48c(a)(4)
07BLR_001	EU	63DDDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.	§ 63.7510(g) § 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
07BLR_002	EU	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(i)	§ 60.48c(a)(1) § 60.48c(a)(3) § 60.48c(a)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						29 megawatts (MW).			
07BLR_002	EU	60Dc-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(i)	§ 60.48c(a)(1) § 60.48c(a)(3) § 60.48c(a)(4)
07BLR_002	EU	60Dc-1	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(i)	§ 60.48c(a)(1) § 60.48c(a)(3) § 60.48c(a)(4)
07BLR_002	EU	63DDDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.	§ 63.7510(g) § 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
07CMNHP	EP	R5121-10	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18	Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
07CMNHP	EP	63FFFF-2	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2460(c)(3)(ii) § 63.2460(c)(6) § 63.2525(g) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.2460(c)(3)(i) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
07CMNLP	EP	R5121-8	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18	Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						for combustion devices).			
07CMNLP	EP	R5121-9	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(A)	Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(A) § 115.126(1)(A)(i) § 115.126(2)	None
07CMNLP	EP	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.i § 63.2450(b) § 63.2450(i)(1) § 63.2450(i)(2) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(c) § 63.982(c)(2) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) § 63.983(d)(2) § 63.983(d)(3) § 63.988(a)(1) § 63.988(a)(2) § 63.996(c)(1) § 63.996(c)(2) § 63.996(c)(2)(i) § 63.996(c)(3) § 63.996(c)(4) § 63.996(c)(5) § 63.996(c)(6) [G]§ 63.997(c)(1)	For each Group 1 continuous process vent, the owner or operator must reduce emissions to an outlet process concentration less than or equal to 20 ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices (except flare).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2450(g) § 63.2450(g)(1) § 63.2450(g)(2) [G]§ 63.2450(g)(3) § 63.2450(g)(4) § 63.2450(k)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.988(b)(1) § 63.988(c)(1) § 63.996(b)(1) § 63.996(b)(1)(i) § 63.996(b)(2) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3)	§ 63.2450(k)(6) § 63.2525(g) § 63.2525(h) § 63.983(b) [G]§ 63.983(d)(2) § 63.988(b)(1) § 63.996(c)(2)(ii) § 63.998(a)(2)(i) § 63.998(a)(2)(ii)(A) § 63.998(a)(2)(ii)(B)(1) § 63.998(a)(2)(ii)(B)(4) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) § 63.998(c)(2)(iii) § 63.998(c)(3)(iii) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(q) § 63.988(b)(1) § 63.996(b)(2) § 63.996(c)(6) § 63.997(c)(3) § 63.998(a)(2)(ii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) [G]§ 63.999(b)(3) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.997(c)(3) [G]§ 63.997(d)		§ 63.997(c)(3)(iii) [G]§ 63.997(d) § 63.997(e) § 63.997(e)(1)(i) [G]§ 63.997(e)(1)(iv) [G]§ 63.997(e)(1)(v) § 63.997(e)(2) § 63.997(e)(2)(i) § 63.997(e)(2)(i)(B) § 63.997(e)(2)(ii) § 63.997(e)(2)(iii) § 63.997(e)(2)(iii)(A) [G]§ 63.997(e)(2)(iii)(B) [G]§ 63.997(e)(2)(iii)(C) [G]§ 63.997(e)(2)(iii)(D) [G]§ 63.997(e)(2)(iii)(E)		
07CMNLP	EP	63FFFF-4	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.997(c)(3)(ii)		
07CTL_001	EU	63FFFF-6	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.2490(a) § 63.2490(b) § 63.2490(c)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b)	[G]§ 63.104(e)(2) [G]§ 63.104(f)(1)	[G]§ 63.104(f)(2)
07FLR_001	CD	R1111-001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
07FLR_001	CD	60A-001	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(iii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 6.18(f)(6) § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3)	None	None
07FLR_001	CD	63A-001	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
07FLR_002	CD	R1111-001	Opacity	30 TAC Chapter 111,	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Visible Emissions		be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).			
07FLR_002	CD	60A-002	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(iii) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) § 60.18(f)(5)	None	None
07FLR_002	CD	60A-003	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(ii) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None
07FLR_002	CD	63A-002	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(iii)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
07FLR_002	CD	63A-003	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(ii)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						used.			
07MCPU	PRO	63FFFF-5	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2440(a) § 63.2450(a) § 63.2450(l) § 63.2460(c)(1)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	§ 63.2445(d) § 63.2460(c)(2)(v)	§ 63.2525 § 63.2525(a) [G]§ 63.2525(b) § 63.2525(c) § 63.2525(f) § 63.2525(j)	§ 63.2435(d) § 63.2445(c) § 63.2450(g)(5) § 63.2450(m) § 63.2450(m)(1) § 63.2450(m)(2) § 63.2460(c)(1) § 63.2515(a) § 63.2515(b)(2) § 63.2515(c) § 63.2520(a) [G]§ 63.2520(b) [G]§ 63.2520(c) [G]§ 63.2520(d) § 63.2520(e) § 63.2520(e)(1) [G]§ 63.2520(e)(10) § 63.2520(e)(2) § 63.2520(e)(3) § 63.2520(e)(4) § 63.2520(e)(5) § 63.2520(e)(5)(i) [G]§ 63.2520(e)(5)(ii) [G]§ 63.2520(e)(5)(iii) § 63.2520(e)(6) § 63.2520(e)(7) § 63.2520(e)(9)
07TOTES	EU	R5112-0006	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
07VNT_001	EP	R5121-11	VOC	30 TAC Chapter 115, Vent Gas	§ 115.127(a)(1) [G]§ 115.122(a)(4)	A vent gas stream from a low-density polyethylene plant is exempt from	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Controls		§115.121(a)(1) of this title if no more than 1.1 pounds of ethylene per 1,000 pounds of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product.		§ 115.126(3)(A)	
612-101116	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-151115	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-151116	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-C22457	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
612-D4704	EU	R5112-0132	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4718	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4723	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4725	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4749	EU	R5112-0132	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4749	EU	60Kb-0081	VOC	40 CFR Part	§ 60.112b(b)(1)	Storage vessels specified	§ 60.113b(d)	§ 60.115b	§ 60.115b

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				60, Subpart Kb	[G]§ 60.112b(a)(3) § 60.18	in §60.112b(b) and equipped with a closed vent system and control device are to meet the specifications in §60.112b(a)(3).	§ 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic Monitoring Summary	§ 60.115b(d)(2) § 60.116b(a) § 60.116b(b)	§ 60.115b(d)(1) § 60.115b(d)(3)
612-D4752	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4754	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4758	EU	R5112-0132	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D4758	EU	60Kb-0081	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(b)(1) [G]§ 60.112b(a)(3) § 60.18	Storage vessels specified in §60.112b(b) and equipped with a closed vent system and control device are to meet the specifications in §60.112b(a)(3).	§ 60.113b(d) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b) ** See Periodic	§ 60.115b § 60.115b(d)(2) § 60.116b(a) § 60.116b(b)	§ 60.115b § 60.115b(d)(1) § 60.115b(d)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							Monitoring Summary		
612-D646	EU	R5112-0132	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D647-1	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-D647-2	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-D652	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-D652	EU	63FFFF-2	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2470(a)-Table 4.1.b.iii § 63.11(b) § 63.2450(b) § 63.2470(a) § 63.2470(d) § 63.982(b)	For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you may reduce total organic HAP	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2470(c)(1) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2470(c)(1) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.2470(d) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(iii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	emissions by venting emissions through a closed vent system to a flare.	[G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	[G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
612-D670	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-F102	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F108	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of this division.			
612-F109	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F5959	EU	R5112-0006	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F670	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F676	EU	R5112-0010	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F706	EU	R5112-0010	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or	[G]§ 115.117 ** See Periodic Monitoring Summary	§ 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						Table II(a).			
612-F710	EU	R5112-0010	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F714	EU	R5112-0097	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3) § 60.18	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
612-F714	EU	R5112-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
612-F714	EU	R5112-2	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
701	CD	R1111-001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						§101.222(b).			
701	CD	63A-001	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
701	CD	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2450(e)(2) § 63.2450(k)(2) § 63.2470(d) § 63.982(b) § 63.987(a) § 63.987(b)(1) § 63.996(a) § 63.996(a)(2) § 63.997(e)(1) § 63.997(e)(3)	Except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed-vent system to any combination of control devices or recovery devices, you must meet the requirements of §63.982(b).	§ 63.987(b)(3) § 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(b) § 63.997(c)(1) § 63.997(c)(1)(iii) § 63.997(c)(1)(v) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) § 63.998(a)(1)(i) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) § 63.998(b)(6)(i) § 63.998(b)(6)(i)(A) [G]§ 63.998(d)(2)	§ 63.2450(f)(2)(ii) § 63.987(b)(1) § 63.997(c)(3) § 63.998(d)(2)(ii) § 63.999(a) [G]§ 63.999(a)(1) § 63.999(a)(2) § 63.999(a)(2)(i) § 63.999(a)(2)(ii) § 63.999(a)(2)(iii) § 63.999(a)(2)(iii)(A) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(3)
701V	EP	R5121-8	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18	Vent gas streams affected by §115.121(a)(1) must be controlled properly with a control efficiency of at least 90% or to a volatile organic compound (VOC) concentration of no more than 20 parts per million (ppmv) (on a dry basis corrected to 3.0% oxygen	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						for combustion devices).			
721	EU	R1111-001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
721	CD	60A-001	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6)	None	None
721	CD	63A-001	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
721	CD	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2450(e)(2) § 63.2450(k)(2) § 63.2470(d) § 63.982(b) § 63.987(a) § 63.996(a) § 63.996(a)(2)	Except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed vent system to a flare, you must meet the requirements of §63.982(b) from 40 CFR 63, Subpart SS and the requirements referenced therein.	§ 63.2450(f) § 63.2450(k) § 63.2450(l) § 63.987(b) § 63.987(b)(3) § 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(b)	[G]§ 63.2450(f)(2) § 63.987(b) § 63.987(b)(1) § 63.998(a) [G]§ 63.998(a)(1) § 63.998(b) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) § 63.998(b)(6)(i) § 63.998(b)(6)(i)(A) [G]§ 63.998(d)(2)	§ 63.2450(f)(2)(ii) § 63.987(b)(1) § 63.999(a) [G]§ 63.999(a)(1) § 63.999(a)(2) § 63.999(a)(2)(i) § 63.999(a)(2)(ii) § 63.999(a)(2)(iii) § 63.999(a)(2)(iii)(A) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 63.997(c) § 63.997(c)(1) § 63.997(c)(1)(iii) § 63.997(c)(1)(v) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i)		
721V	EP	R5121-8	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18	Vent gas affected by §115.121(a)(1) must be controlled properly with a control efficiency > 90% or to a VOC concentration of no more than 20 ppmv (dry, corrected to 3% O ₂ for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
858	EU	R1111-001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
858	CD	63A-002	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None
858	CD	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2450(e)(2) § 63.2450(k)(2) § 63.2470(d) § 63.982(b) § 63.987(a)	Except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed	§ 63.2450(f) § 63.2450(k) § 63.2450(l) § 63.987(b) § 63.987(b)(3)	[G]§ 63.2450(f)(2) § 63.987(b) § 63.987(b)(1) § 63.998(a) [G]§ 63.998(a)(1)	§ 63.2450(f)(2)(ii) § 63.987(b) § 63.987(b)(1) § 63.999(a) [G]§ 63.999(a)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.996(a) § 63.996(a)(2)	vent system to a flare, you must meet the requirements of §63.982(b) from 40 CFR 63, Subpart SS and the requirements referenced therein.	§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(b) § 63.997(c) § 63.997(c)(1) § 63.997(c)(1)(iii) § 63.997(c)(1)(v) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i)	§ 63.998(b) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) § 63.998(b)(6)(i) § 63.998(b)(6)(i)(A) [G]§ 63.998(d)(2)	§ 63.999(a)(2) § 63.999(a)(2)(i) § 63.999(a)(2)(ii) § 63.999(a)(2)(iii) § 63.999(a)(2)(iii)(A) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(3)
858V	EP	R5121-8	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(1) § 115.121(a)(1) § 115.122(a)(1)(B) § 60.18	Vent gas affected by §115.121(a)(1) must be controlled properly with a control efficiency > 90% or to a VOC concentration of no more than 20 ppmv (dry, corrected to 3% O2 for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
863	EU	R5112-0019	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(2) § 115.112(a)(2)(A) § 115.112(a)(2)(B) § 115.112(a)(2)(C) § 115.112(a)(2)(D) § 115.112(a)(2)(E) § 115.114(a)(1)(A)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	§ 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117	§ 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(7)	§ 115.114(a)(1)(B) § 115.118(a)(3)
863	EU	60Kb-0068	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(B) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi)	Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix).	§ 60.113b(a)(1) [G]§ 60.113b(a)(3) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e)	§ 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c)	§ 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii)		§ 60.116b(e)(1) [G]§ 60.116b(e)(3)		
AT360	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
AT361	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
B-4901	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.	§ 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
B-4902	EU	63DDDDD-2	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.	§ 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
									[G]§ 63.7550(h)
B-4903	EU	63DDDDD-3	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified in § 63.7540.	§ 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
B500	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7500(e) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12) § 63.7540(a)(13)	For a new or existing boiler or process heater with a heat input capacity of less than or equal to 5 million Btu per hour designed to burn gas 1, a tune-up of the boiler or process heater must be conducted every 5 years as specified in § 63.7540.	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7540(b) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
DEGR4	EU	R5412-001	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) § 115.411(2) § 115.411(2)(A) [G]§ 115.412(1)(A) § 115.412(1)(C) [G]§ 115.412(1)(F)	No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except as exempted in §115.411.	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
DEGR6	EU	R5412-003	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) § 115.411(2) § 115.411(2)(B) [G]§ 115.412(1)(A) § 115.412(1)(C)	No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.412(1)(D) [G]§ 115.412(1)(F)	as exempted in §115.411.			
F-7001	EU	R5112-0006	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
F-711	EU	R5137-001	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
F-712	EU	R5137-001	VOC	30 TAC Chapter 115, Water Separation	§ 115.137(a)(2) [G]§ 115.132(a)(4)	Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).	[G]§ 115.135(a) § 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	§ 115.136(a)(1) § 115.136(a)(3) § 115.136(a)(4)	None
G-650	EU	60III-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 8 KW and less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 6.6 g/KW-hr as stated in 40	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
G-650	EU	60III-1	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year or later must comply with an NMHC+NO _x emission limit of 7.5 g/KW-hr, as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
G-650	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power less than 19 KW and a displacement of less than 10 liters per cylinder and is a 2008 model year and later must comply with a PM emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
G-650	EU	60III-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4201(a) § 60.4206	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder and is not a constant-speed engine and	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	is a 2007 model year and later must comply with the following opacity emission limits: 20% during the acceleration mode, 15% during the lugging mode, and 50% during the peaks in either the acceleration or lugging modes as stated in 40 CFR 60.4201(a)-(c) and 40 CFR 89.113(a)(1)-(3) and 40 CFR 1039.105(b)(1)-(3).			
G-650	EU	63ZZZZ-002	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c) § 63.6590(c)(7)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
GRP-BOILER	EU	63DDDDD-2	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.1 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(12)	A new or existing boiler or process heater with a continuous oxygen trim system that maintains an optimum air to fuel ratio must conduct a tune-up of the boiler or process heater every 5 years as specified	§ 63.7515(d) § 63.7525(a)(7) § 63.7540(a) [G]§ 63.7540(a)(10)	§ 63.7555(a) § 63.7555(a)(1) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) § 63.7550(a) [G]§ 63.7550(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.7540(a)(13)	in § 63.7540.			[G]§ 63.7550(c) [G]§ 63.7550(h)
GRPDRUMVENT	EP	63FFFF-G1CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
GRPENGINE	EU	63ZZZZ-001	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table 2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPEXLDPE	EP	R5121-3	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(1) [G]§ 115.122(a)(4)	A vent gas stream from a low-density polyethylene plant is exempt from §115.121(a)(1) of this title if no more than 1.1 pounds of ethylene per 1,000 pounds of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRPFINVNT	EP	R5121-11	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(1) [G]§ 115.122(a)(4)	A vent gas stream from a low-density polyethylene plant is exempt from §115.121(a)(1) of this title if no more than 1.1 pounds of ethylene per 1,000 pounds of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRPFINVNT	EP	63FFFF-5	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(b) § 63.2455(b)(1) § 63.2455(b)(2) § 63.2455(b)(3)	For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1)-(3) of this section.	§ 63.115(d) [G]§ 63.115(d)(1) § 63.115(d)(2) § 63.115(d)(2)(i) [G]§ 63.115(d)(2)(ii) § 63.115(d)(2)(iii) § 63.115(d)(2)(iv) § 63.115(d)(3)(i) § 63.115(d)(3)(ii)	None	None
GRPFTO	EP	R1111-002	Opacity	30 TAC Chapter 111, Visible	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15%	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Emissions		averaged over a six-minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.			
GRPLOAD	EU	R5211-001	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C).	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1)	§ 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
GRPLPTANK1	EU	R5112-0006	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
GRPLPVENT4	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPLPVENT6	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5)	§ 115.126 § 115.126(2) § 115.126(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	§ 115.126(2)		
GRPLPVENT8	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPLPVENT9	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	§ 115.125(1) [G]§ 115.125(2) § 115.125(4) § 115.125(5) § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPSTORVNT	EP	R5121-11	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(1) [G]§ 115.122(a)(4)	A vent gas stream from a low-density polyethylene plant is exempt from §115.121(a)(1) of this title if no more than 1.1 pounds of ethylene per 1,000 pounds of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRPSTORVNT	PRO	60DDD-CVU1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).			
GRPUNLOAD	EU	R5211-002	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(3) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.214(a)(1)(B) § 115.214(a)(1)(C)	All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(iii)	None
HP-ENG-003	EU	60III-2	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-003	EU	60III-2	NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						a 2014 model year and later must comply with a NOx emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-003	EU	60III-2	Nonmethane Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with an NMHC emission limit of 0.19 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-003	EU	60III-2	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must comply with a PM emission limit of 0.02 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-003	EU	63ZZZZ-	112(B)	40 CFR Part	§ 63.6590(c)	Stationary RICE subject to	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		003	HAPS	63, Subpart ZZZZ	§ 63.6590(c)(7)	Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
HP-ENG-004	EU	60IIII-2	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-004	EU	60IIII-2	NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b)	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 60.4211(a) § 60.4211(c) § 60.4218	than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with a NOx emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-004	EU	60III-2	Nonmethane Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with an NMHC emission limit of 0.19 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-004	EU	60III-2	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.102 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must comply with a PM emission limit of 0.02 g/KW-hr as stated in 40 CFR 60.4201(a) and 40	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-004	EU	63ZZZZ-003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c) § 63.6590(c)(7)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
HP-ENG-006	EU	60IIII-3	CO	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.101 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 89.112(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-006	EU	60IIII-3	NO _x	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.101	Owners and operators of non-emergency stationary	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4201(a) § 60.4206 [G]§ 60.4211(a) § 60.4211(c) § 60.4218	CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with a NOx emission limit of 0.40 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-006	EU	60III-3	Nonmethane Hydrocarbons	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.101 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 56 KW but less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2014 model year and later must comply with an NMHC emission limit of 0.19 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.	None	None	None
HP-ENG-006	EU	60III-3	PM	40 CFR Part 60, Subpart IIII	§ 60.4204(b) § 1039.101 § 60.4201(a) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4218	Owners and operators of non-emergency stationary CI ICE with a maximum engine power greater than or equal to 130 KW and less than 560 KW and a displacement of less than 10 liters per cylinder and is a 2011 model year and later must comply with a	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						PM emission limit of 0.02 g/KW-hr as stated in 40 CFR 60.4201(a) and 40 CFR 1039.102 and 40 CFR 1039.101.			
HP-ENG-006	EU	63ZZZZ-004	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery &	§ 115.352(1)(B) § 115.352(1) § 115.352(10)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Petrochemicals	§ 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.		[G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.357(8)				
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8)	or exuding of process fluid based on sight, smell, or sound.		§ 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	process fluid based on sight, smell, or sound.		§ 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(9) [G]§ 115.355 § 115.357(1)	[G]§ 115.356(3)(C) § 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery &	§ 115.352(1)(A) § 115.352(1) § 115.352(10)	No process drains shall be allowed to have a VOC leak, for more than 15 days	§ 115.354(1) § 115.354(10) § 115.354(5)	§ 115.352(7) § 115.354(10) § 115.356	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Petrochemicals	§ 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(6) § 115.354(9) [G]§ 115.355	[G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	R5352-1	VOC	30 TAC	§ 115.357(11)	Sampling connection	None	§ 115.356	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Chapter 115, Pet. Refinery & Petrochemicals		systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.		§ 115.356(3) [G]§ 115.356(3)(C)	
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
HPFUG	EU	63FFFF-3	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) The permit holder shall comply with the	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable monitoring	The permit holder shall comply with the applicable	The permit holder shall comply with the applicable reporting

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	Part 63, Subpart FFFF	and testing requirements of 40 CFR Part 63, Subpart FFFF	recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	requirements of 40 CFR Part 63, Subpart FFFF
LINE 45	EP	63FFFF-G1CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	For each Group 1continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
LINE 60	EP	63FFFF-G1CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b)	For each Group 1continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) § 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	vent system to a flare.	[G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	[G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
LINE44	EP	63FFFF-G1CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(2)(iii) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.997(c)(3)		[G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.998(d)(5)	
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						the requirements of this division except §115.356(3)(C) of this title.			
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains contacting an affected VOC wastewater stream with a VOC TVP less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(A) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery &	§ 115.352(1)(A) § 115.352(1) § 115.352(2)	No process drains contacting an affected VOC wastewater stream with a	[G]§ 115.354(1) § 115.354(10) § 115.354(5)	§ 115.352(7) § 115.354(10) § 115.356	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Petrochemicals	§ 115.352(2)(A) § 115.352(3) § 115.352(7)	VOC TVP greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(6) § 115.354(9) [G]§ 115.355	[G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) § 115.356(2)(C) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(D) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						based on sight, smell, or sound.			
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(A) § 115.354(1)(B) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) § 115.356(2)(C) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(A) § 115.354(1)(B) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5)	No valves contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(2) § 115.354(2)(C) § 115.354(5) § 115.354(6) § 115.354(9)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355 § 115.357(1)		
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No valves contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(C) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	[G]§ 115.354(7)
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A)	No flanges or other connectors contacting a process fluid greater than 0.044 psia shall be allowed	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	[G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC	§ 115.352(1)(B)	No compressor seals	§ 115.354(1)	§ 115.352(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(A) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals equipped with a shaft sealing system shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7)	No pump seals contacting a process fluid less than or equal to 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(2) § 115.354(2)(B) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) § 115.356(2) § 115.356(2)(A) § 115.356(2)(B) [G]§ 115.356(2)(E) § 115.356(2)(F) [G]§ 115.356(3) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.357(1) § 115.357(8)	based on sight, smell, or sound.			
LPFUG	EU	R5352-1	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals contacting a process fluid greater than 0.044 psia shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(1)(B) § 115.354(1)(C) § 115.354(10) § 115.354(2) § 115.354(2)(B) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) [G]§ 115.356(3) § 115.356(5)	None
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.483-1(a) § 60.483-1(b) § 60.483-1(b)(3) § 60.483-1(c) § 60.483-1(c)(1) § 60.483-1(c)(2) § 60.483-1(c)(3) § 60.483-1(d) § 60.483-2(a)(1) § 60.483-2(b)(1) § 60.483-2(b)(2) § 60.483-2(b)(3) § 60.483-2(b)(4)	An owner or operator may elect to comply with the requirements specified in §60.483-1 and §60.483-2.	§ 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.483-1(b)(2) § 60.483-2(b)(7) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	§ 60.483-2(b)(6) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) [G]§ 60.486(f) [G]§ 60.486(g)	§ 60.483-1(b)(1) § 60.483-2(a)(2) § 60.487(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.483-2(b)(5) [G]§ 60.485(h)				
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-10(d) § 60.482-10(m) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-10 for flares.	§ 60.482-10(e) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for pressure relief devices in light-liquid or heavy-liquid service.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(d) § 60.486(k) § 60.562-2(e)	Comply with the requirements as stated in §60.482-1(d) for equipment in vacuum service.	None	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b)	Comply with the requirements in as stated in §60.482-10 for closed-vent	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d)	§ 60.482-1(g) [G]§ 60.482-10(l) [G]§ 60.486(a)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-1(g) § 60.482-10 [G]§ 60.482-10(f) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(i) [G]§ 60.482-10(j) [G]§ 60.482-10(k) § 60.482-10(m) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	systems.	§ 60.485(f) § 60.562-2(d)	[G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for flanges or other connectors.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g)	Comply with the requirements in as stated in §60.482-7 for valves in gas/vapor or light-liquid service.	§ 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) § 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)		[G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	§ 60.486(j) § 60.562-2(e)	
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for valves in heavy-liquid service.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a)	Comply with the requirements in as stated in §60.482-8 for pumps in heavy-liquid service.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)				
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-3(a) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2) § 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a) § 60.482-9(b) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements as stated in §60.482-3 for compressors.	§ 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-2(b)(1) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2)	Comply with the requirements as stated in §60.482-2 for pumps in light-liquid service.	§ 60.482-1(f)(1) § 60.482-1(f)(2) [G]§ 60.482-1(f)(3) [G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e)	§ 60.482-1(g) [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) § 60.486(f) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k) § 60.562-2(d) § 60.562-2(e)		§ 60.485(f) § 60.562-2(d)	§ 60.562-2(e)	
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) [G]§ 60.482-1(e) § 60.486(k)	Comply with the requirements in as stated in §60.482-1(e) for equipment in VOC service < 300 hours/year.	None	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(6) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-4(a) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a) § 60.482-9(b) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-4 for pressure relief devices in gas/vapor service.	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g)	Comply with the requirements in as stated in §60.482-5 for sampling connection systems.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-5(a) [G]§ 60.482-5(b) § 60.482-5(c) § 60.486(k) § 60.562-2(d) § 60.562-2(e)		§ 60.562-2(d)	§ 60.486(j) § 60.562-2(e)	§ 60.562-2(e) § 60.565(l)
LPFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) § 60.482-1(g) § 60.482-6(a)(1) § 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.486(k) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-6 for open-ended valves and lines.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) § 60.562-2(d)	§ 60.482-1(g) [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.562-2(e)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.562-2(e) § 60.565(l)
LPFUG	EU	63FFFF-1	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
M-4799	EU	60IIII-1	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per	None	§ 60.4211(f)(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.112(a)	cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).			
M-4799	EU	60III-1	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	None	§ 60.4211(f)(1)	None
M-4799	EU	60III-1	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR	None	§ 60.4211(f)(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						89.112(a).			
M-4799	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) § 60.4211(f) § 60.4211(f)(1) § 60.4211(f)(2) § 60.4211(f)(2)(i) § 60.4211(f)(3) § 60.4218 § 89.113(a)(1) § 89.113(a)(2) § 89.113(a)(3)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2) and §89.113(a)(1)-(3) and §1039.105(b)(1)-(3).	None	§ 60.4211(f)(1)	None
M-4799	EU	63ZZZZ-001	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c) § 63.6590(c)(7)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
M5PAINT	PRO	115E-01	VOC	30 TAC Chapter 115, Surface Coating Operations	§ 115.427(3)(A) [G]§ 115.422(6) § 115.426	Surface coating operations on a property that, when uncontrolled, will emit a combined weight of VOC of less than 3.0 pounds per hour and less than 15 pounds in any consecutive 24-hour period are exempt from §115.421 of this title and §115.423 of this title (relating to Alternate Control Requirements).	§ 115.426(4)	§ 115.426 § 115.426(4)	[G]§ 115.422(6)
PROLDPE	PRO	63FFFF-6	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2440(a) § 63.2450(a) § 63.2450(l)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	§ 63.2445(d)	§ 63.2525 § 63.2525(a) [G]§ 63.2525(b) § 63.2525(c) § 63.2525(f) § 63.2525(j)	§ 63.2435(d) § 63.2445(c) § 63.2450(g)(5) § 63.2450(m) § 63.2450(m)(1) § 63.2450(m)(2) § 63.2515(a) § 63.2515(b)(1) § 63.2515(c) § 63.2520(a) [G]§ 63.2520(b) [G]§ 63.2520(c) [G]§ 63.2520(d) § 63.2520(e) § 63.2520(e)(1) [G]§ 63.2520(e)(10) § 63.2520(e)(2) § 63.2520(e)(3) § 63.2520(e)(4) § 63.2520(e)(5) § 63.2520(e)(5)(i) [G]§ 63.2520(e)(5)(ii) [G]§ 63.2520(e)(5)(iii) § 63.2520(e)(6) § 63.2520(e)(7) § 63.2520(e)(9)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROLPMR	PRO	60DDD-CVCF	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(iii) § 60.562-1(a)(1)(iii)(A) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROLPMR	EU	60DDD-IVCF	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/ replacement, the vent stream is exempted.	None	None	None
PROLPPF4AB	PRO	60DDD-CVCF	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(iii) § 60.562-1(a)(1)(iii)(A) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROLPPF4AB	PRO	60DDD-CVU1	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						(1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).			§ 60.565(k)(7)
PROLPPF4AB	PRO	60DDD-CVU2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)
PROLPRMP	PRO	60DDD-CVCF	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(iii) § 60.562-1(a)(1)(iii)(A) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROLPRMP	EU	60DDD-IVCF	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(1) § 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4)
PROLPRMP	PRO	60DDD-	VOC/TOC	40 CFR Part	§ 60.560(d)	§60.562-1 does not apply	[G]§ 60.564(h)	§ 60.565(a)	§ 60.565(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
		IVU		60, Subpart DDD		to any polypropylene or polyethylene affected facility with an 09/30/87 applicability date and an uncontrolled emission rate that is the rates of Table 2.		§ 60.565(a)(10) § 60.565(h)	§ 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7) § 60.565(l)
PROLPRX60	PRO	60DDD-EV	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(d)	§60.562-1 does not apply to any polypropylene or polyethylene affected facility with an 09/30/87 applicability date and an uncontrolled emission rate that is the rates of Table 2.	[G]§ 60.564(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7) § 60.565(l)
PROLPRX60	EU	60DDD-IVCF	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction/ replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
RAIL-LOAD1	EU	R5211-003	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18	At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C).	§ 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1)	§ 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary	99
Periodic Monitoring Summary	105

CAM Summary

Unit/Group/Process Information	
ID No.: 07CMNHP	
Control Device ID No.: 07FLR*002	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-10
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Loss of all pilots on flare.	
<p>CAM Text: Measure and record the presence of the pilot flame. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. In the event the thermocouple or equivalent monitoring device is experiencing a system malfunction, a visual verification of the pilot flame may be performed to detect the presence of a flame. Lack of all flare pilot flames, as evidenced by all available monitoring data and/or visual observation shall be considered and reported as a deviation.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: 07CMNLP	
Control Device ID No.: 07FLR*001	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-8
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Loss of all pilots on flare.	
<p>CAM Text: Measure and record the presence of the pilot flame. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. In the event the thermocouple or equivalent monitoring device is experiencing a system malfunction, a visual verification of the pilot flame may be performed to detect the presence of a flame. Lack of all flare pilot flames, as evidenced by all available monitoring data and/or visual observation shall be considered and reported as a deviation.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: 07CMNLP	
Control Device ID No.: GRPFTO	Control Device Type: Thermal incinerator (direct flame incinerator/regenerative thermal oxidizer)
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-9
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas Temperature	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Temperature less than 1300 degrees Fahrenheit when gas is directed to the control device.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 0.75% of the temperature being measured expressed in degrees Celsius; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: 701V	
Control Device ID No.: 701	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-8
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Loss of all pilots on flare.	
<p>CAM Text: Measure and record the presence of the pilot flame. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. In the event the thermocouple or equivalent monitoring device is experiencing a system malfunction, a visual verification of the pilot flame may be performed to detect the presence of a flame. Lack of all flare pilot flames, as evidenced by all available monitoring data and/or visual observation shall be considered and reported as a deviation.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: 721V	
Control Device ID No.: 721	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-8
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Loss of all pilots on flare	
<p>CAM Text: Measure and record the presence of the pilot flame. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. In the event the thermocouple or equivalent monitoring device is experiencing a system malfunction, a visual verification of the pilot flame may be performed to detect the presence of a flame. Lack of all flare pilot flames, as evidenced by all available monitoring data and/or visual observation shall be considered and reported as a deviation.</p>	

CAM Summary

Unit/Group/Process Information	
ID No.: 858V	
Control Device ID No.: 858	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-8
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: N/A	
Deviation Limit: Loss of all pilots on flare	
<p>CAM Text: Measure and record the presence of the pilot flame. The presence of a pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. In the event the thermocouple or equivalent monitoring device is experiencing a system malfunction, a visual verification of the pilot flame may be performed to detect the presence of a flame. Lack of all flare pilot flames, as evidenced by all available monitoring data and/or visual observation shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 612-D4749	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-0081
Pollutant: VOC	Main Standard: § 60.112b(b)(1)
Monitoring Information	
Indicator: Indication of a leak in CVS components	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Failure to repair leaks as required	
<p>Periodic Monitoring Text: Perform an inspection of the closed vent system utilizing visual, audible, or olfactory (AVO) methods. If a leak is found by AVO methods, a first attempt at repair shall be performed within 5 days after discovery of the leak. The leak shall be repaired within 15 days after discovery of the leak, unless the repair is technically infeasible without a process unit shutdown or if the immediate repair would cause more emissions than the fugitive emissions likely to result from the delay of repair. If the repair is delayed, repairs must be performed during the next process unit shutdown. If delay of repair is not justified, it shall be considered a deviation if, upon discovery of a leak, the first attempt at repair is not attempted within 5 days or if repairs are not complete within 15 days after discovery of a leak. If delay of repair is justified, it shall be considered a deviation if the repairs are not completed during the next process unit shutdown.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 612-D4758	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Kb	SOP Index No.: 60Kb-0081
Pollutant: VOC	Main Standard: § 60.112b(b)(1)
Monitoring Information	
Indicator: Indication of a leak in CVS components	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Failure to repair leaks as required	
<p>Periodic Monitoring Text: Perform an inspection of the closed vent system utilizing visual, audible, or olfactory (AVO) methods. If a leak is found by AVO methods, a first attempt at repair shall be performed within 5 days after discovery of the leak. The leak shall be repaired within 15 days after discovery of the leak, unless the repair is technically infeasible without a process unit shutdown or if the immediate repair would cause more emissions than the fugitive emissions likely to result from the delay of repair. If the repair is delayed, repairs must be performed during the next process unit shutdown. If delay of repair is not justified, it shall be considered a deviation if, upon discovery of a leak, the first attempt at repair is not attempted within 5 days or if repairs are not complete within 15 days after discovery of a leak. If delay of repair is justified, it shall be considered a deviation if the repairs are not completed during the next process unit shutdown.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 612-F706	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-0010
Pollutant: VOC	Main Standard: § 115.112(a)(1)
Monitoring Information	
Indicator: Liquid Level	
Minimum Frequency: At the end of each unloading operation	
Averaging Period: N/A	
Deviation Limit: Fill pipe must be submerged at all times	
<p>Periodic Monitoring Text: Regardless of the location of the fill pipe, the fill pipe must be submerged at all times. Establish the volume of liquid at the depth of the highest point of the fill pipe. Record the volume of liquid loaded and unloaded so that the storage vessel liquid volume is known. It shall be considered and reported as a deviation anytime the liquid volume falls below the liquid volume at the fill pipe.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 612-F706	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-0010
Pollutant: VOC	Main Standard: § 115.112(a)(1)
Monitoring Information	
Indicator: Structural Integrity of the Pipe	
Minimum Frequency: Emptied and degassed	
Averaging Period: N/A	
Deviation Limit: Must repair fill pipe prior to any filling operation	
<p>Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: DEGR4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-001
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of §115.412(1)(A) - (F) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: DEGR6	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-003
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of §115.412(1)(A) - (F) shall be considered and reported as a deviation.	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPFTO	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-002
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per week	
Averaging Period: N/A	
<p>Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder may either report a deviation or perform Test Method 9 and opacity shall not exceed 15%.</p> <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

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The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
07CTL_001	N/A	40 CFR Part 63, Subpart Q	Not operated with chromium-based water treatment chemicals on or after September 9, 1994.
502	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
612-101116	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-151115	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-151116	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-C22457	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-D4704	N/A	40 CFR Part 60, Subpart Ka	Tank does not store petroleum liquid
612-D4718	N/A	40 CFR Part 60, Subpart Ka	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D4723	N/A	40 CFR Part 60, Subpart Ka	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D4725	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
612-D4752	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-D4754	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-D645	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
612-D645	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-D646	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid
612-D647-1	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-D647-2	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-D652	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D670	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D702	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not storage a VOC
612-D702	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,00 gallons)
612-D703	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store a VOC
612-D703	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			(40,000 gallons)
612-D716	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
612-D716	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-D716A	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons
612-D716A	N/A	40 CFR Part 60, Subpart K	Tank does not store petroleum liquid and the storage capacity is less than 151,412 liters (40,000 gallons)
612-F102	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F108	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F109	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F5959	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-F670	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons)
612-F676	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-F706	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,142 liters (40,000 gallons)
612-F710	N/A	40 CFR Part 60, Subpart Ka	Tank capacity is less than 151,142 liters (40,000 gallons)

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
612-F714	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
612-F723	N/A	30 TAC Chapter 115, Storage of VOCs	Tank does not store a VOC
612-F723	N/A	40 CFR Part 60, Subpart Kb	Tank does not store a VOL
612-F801	N/A	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 25,000 gallons and is located at a motor vehicle fuel dispensing facility
612-F801	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
701	N/A	40 CFR Part 60, Subpart A	Flare is not used to comply with any subpart under 40 CFR Part 60 or 61.
702	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
703	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
704	N/A	30 TAC Chapter 115, Vent Gas Controls	Located in BPA, DFW, El Paso, or HGA; is a combustion unit exhaust stream from a unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source

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The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
723	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
723A	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
976	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit which is not being used as a control device for any vent gas stream subject to this undesignated head and which originates from a non-combustion source
B-4901	N/A	30 TAC Chapter 112, Sulfur Compounds	Does not burn solid or liquid fossil fuels.
B-4901	N/A	30 TAC Chapter 117, Subchapter B	Maximum rated capacity is less than 40 MMBtu/hr.
B-4901	N/A	40 CFR Part 60, Subpart D	Heat input rate for fossil fuel fired steam generating unit is less than or equal to 250 MMBTU/hr (73 MW)
B-4901	N/A	40 CFR Part 60, Subpart Db	Heat input rate for the steam generating unit is less than or equal to 100 MMBTU/hr
B-4901	N/A	40 CFR Part 60, Subpart Dc	Heat input rate for the steam generating unit is less than 10 MMBTU/hr
B-4902	N/A	30 TAC Chapter 112, Sulfur Compounds	Does not burn solid or liquid fossil fuels.
B-4902	N/A	30 TAC Chapter 117, Subchapter B	Maximum rated capacity is less than 40 MMBtu/hr.
B-4902	N/A	40 CFR Part 60, Subpart D	Heat input rate for fossil fuel fired steam

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			generating unit is less than or equal to 250 MMBTU/hr (73 MW)
B-4902	N/A	40 CFR Part 60, Subpart Db	Heat input rate for the steam generating unit is less than or equal to 100 MMBTU/hr
B-4902	N/A	40 CFR Part 60, Subpart Dc	Unit was constructed, modified, or reconstructed before 06/09/1989
B-4903	N/A	30 TAC Chapter 112, Sulfur Compounds	Does not burn solid or liquid fossil fuels.
B-4903	N/A	30 TAC Chapter 117, Subchapter B	Maximum rated capacity is less than 40 MMBtu/hr.
B-4903	N/A	40 CFR Part 60, Subpart D	Heat input rate for fossil fuel fired steam generating unit is less than or equal to 250 MMBTU/hr (73 MW)
B-4903	N/A	40 CFR Part 60, Subpart Db	Heat input rate for the steam generating unit is less than or equal to 100 MMBTU/hr
B-4903	N/A	40 CFR Part 60, Subpart Dc	Heat input rate for the steam generating unit is less than 10 MMBTU/hr
B500	N/A	30 TAC Chapter 117, Subchapter B	Maximum rated capacity is less than 40 MMBtu/hr.
DEGR5	N/A	30 TAC Chapter 115, Degreasing Processes	Remote reservoir cold cleaner uses a solvent with a true vapor pressure of < 0.6 psia at 100F with a drain area < 16 sq. inches and waste solvent is disposed of in enclosed containers
F-7001	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
F700	N/A	40 CFR Part 63, Subpart Q	Has not been operated with chromium-based water treatment chemicals on or after

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			09/08/1994
F701	N/A	40 CFR Part 63, Subpart Q	Not operated with chromium-based water treatment chemicals on or after 09/08/1994
G-650	N/A	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from 30 TAC Chapter 117, Subchapter B, division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area Major Sources.
GRP-BOILER	B700, B700A, B704	30 TAC Chapter 112, Sulfur Compounds	Does not burn solid or liquid fossil fuels.
GRP-BOILER	B700, B700A, B704	30 TAC Chapter 117, Subchapter B	Maximum rated capacity is less than 40 MMBtu/hr.
GRP-BOILER	B700, B700A, B704	40 CFR Part 60, Subpart D	Heat input for fossil-fuel fired steam generating unit is less than or equal to 250 MMBTU/hr (73 MW)
GRP-BOILER	B700, B700A, B704	40 CFR Part 60, Subpart Db	Unit was constructed, modified, or reconstructed before 06/19/1984
GRP-BOILER	B700, B700A, B704	40 CFR Part 60, Subpart Dc	Unit was constructed, modified, or reconstructed before 06/09/1989
GRPDUMVENT	D-128, D-228, D-3328	40 CFR Part 60, Subpart DDD	Vents comply with 40 CFR Part 63, Subpart FFFF.
GRPENGINE	M-701, M-705, M-706	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from 30 TAC Chapter 117 Subchapter B, Division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area Major Sources
GRPENGINE	M-701, M-705, M-706	40 CFR Part 60, Subpart IIII	Stationary CI ICE constructed prior to July 11, 2005.
GRPHPTANK1	612-143515, 612-151108, 612-	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1000 gallons

Permit Shield

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
	151109, 612-23481, 612-C20542, 612-C22349, 612-F726, 612-F802, 612-F808, 612-PK001, 612-TS1316		
GRPHPTANK1	612-143515, 612-151108, 612-151109, 612-23481, 612-C20542, 612-C22349, 612-F726, 612-F802, 612-F808, 612-PK001, 612-TS1316	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
GRPLPTANK1	612-F4706, 612-F6640A, 612-F6640B	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,812 gallons)
HP-ENG-003	N/A	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from 30 TAC Chapter 117, Subchapter B, division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area Major Sources.
HP-ENG-004	N/A	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from 30 TAC Chapter 117, Subchapter B, division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area Major Sources.
HPFUG	N/A	40 CFR Part 61, Subpart J	This unit does not have equipment intended for operation in benzene service
HPFUG	N/A	40 CFR Part 61, Subpart V	This unit does not have equipment intended for operation in VHAP service
HPFUG	N/A	40 CFR Part 63, Subpart H	Components are not subject to a MACT provision that specifically references this subpart
LPFUG	N/A	40 CFR Part 60, Subpart VV	Facility does not make a chemical that meets the definition of a SOCMI plant
LPFUG	N/A	40 CFR Part 61, Subpart J	This unit does not have equipment intended for operation in benzene service

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
LPFUG	N/A	40 CFR Part 61, Subpart V	This unit does not have equipment intended for operation in VHAP service
LPFUG	N/A	40 CFR Part 63, Subpart H	Fugitive components comply with MACT UU.
M-4799	N/A	30 TAC Chapter 117, Subchapter B	Stationary diesel engines are exempt from the provision of Chapter 117 Subchapter B, Division 1 relating to Beaumont-Port Arthur Ozone Nonattainment Area major sources
M2CAN	N/A	30 TAC Chapter 115, Surface Coating Operations	Aerosol Coatings (Spray Paint) is exempt from the requirements of 30 TAC Chapter 115, Subchapter E, Division 2 per 115.427(6).
PROHPMR	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPFL1	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPFL2	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPFL3	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPRL1	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPRL2	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPRL3	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPSL1	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
PROHPPSL2	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPPSL3	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROHPRMP	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPPF5	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPPF6	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPPS4AB	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPPS5	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPPS6	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPRX44	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987
PROLPRX45	N/A	40 CFR Part 60, Subpart DDD	Affected facility was constructed, modified, or reconstructed before 09/30/1987

New Source Review Authorization References

New Source Review Authorization References	124
New Source Review Authorization References by Emission Unit	126

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1464	Issuance Date: 07/31/2020
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 6860	Issuance Date: 07/31/2020
Authorization No.: 8758	Issuance Date: 05/15/2020
Authorization No.: 115295	Issuance Date: 10/08/2021
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 5	Version No./Date: 05/04/1994
Number: 8	Version No./Date: 01/08/1980
Number: 15	Version No./Date: 09/17/1973
Number: 49	Version No./Date: 03/15/1985
Number: 51	Version No./Date: 11/05/1986
Number: 51	Version No./Date: 08/30/1988
Number: 51	Version No./Date: 07/20/1992
Number: 51	Version No./Date: 05/04/1994
Number: 57	Version No./Date: 01/08/1980
Number: 83	Version No./Date: 03/15/1985
Number: 106	Version No./Date: 05/04/1994
Number: 106.122	Version No./Date: 03/14/1997
Number: 106.227	Version No./Date: 03/14/1997
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 03/14/1997
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.451	Version No./Date: 03/14/1997
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 106.532	Version No./Date: 09/04/2000
Number: 118	Version No./Date: 06/07/1996

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
07BLR_001	STEAM BOILER 001	115295
07BLR_002	STEAM BOILER 002	115295
07CMNHP	HIGH PRESSURE VENT HEADER	115295
07CMNLP	LOW PRESSURE VENT HEADER	115295
07CTL_001	COOLING TOWER	115295
07FLR_001	LOW PRESSURE ELEVATED FLARE	115295
07FLR_002	MULTI-POINT GROUND FLARE	115295
07GPS_001	GRANULAR RESIN VENT	115295
07GPS_002	FEED BIN(S) RECIRCULATING ROTARY FEEDER VENT	115295
07GPS_003	FEED BIN(S) RECIRCULATING ROTARY FEEDER VENT	115295
07LDS_001	PRIME PELLET SILOS VENTS DUST COLLECTOR.	115295
07LDS_002	ELUTRIATOR CYCLONE VENT	115295
07LDS_003	ELUTRIATOR CYCLONE VENT	115295
07LDS_004	HOPPER CAR LOADING VENT 01	115295
07LDS_005	HOPPER CAR LOADING VENT 02	115295
07MCPU	PE UNIT #3	115295
07PPS_001	PELLET DRYER VENT-01	115295
07PPS_002	PELLET DRYER VENT-02	115295
07PPS_003	PELLET SURGE BIN VENT	115295
07TOTES	CHEMICAL STORAGE TOTES	106.371/09/04/2000, 106.472/09/04/2000, 106.532/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
07TOX_001	FLAMELESS THERMAL OXIDIZER 001	115295
07TOX_002	FLAMELESS THERMAL OXIDIZER 002	115295
07VNT_001	ANALYZER VENTS	115295
104	SPIN DRYER	6860, PSDTX1464
204	SPIN DRYER	6860, PSDTX1464
307	SPIN DRYER	6860, PSDTX1464
401	CATALYST SUPPORT DEHYDRTR	8758
423	PRODUCT CONVEYING SYSTEM (REACTOR 44)	8758
424	PRODUCT CONVEYING SYSTEM (REACTOR 45)	8758
429A	ANALYZER VENT	8758
429B	ANALYZER VENT	8758
429C	ANALYZER VENT	8758
429D	ANALYZER VENT	8758
429E	ANALYZER VENT	8758
429F	ANALYZER VENT	8758
502	PROCESS HEATER VENT	6860, PSDTX1464
604	BLENDING SILOS L1	6860, PSDTX1464
605	BLENDING SILOS L2	6860, PSDTX1464
606	LOADING ELUTRIATOR L1	6860, PSDTX1464
607	LOADING ELUTRIATOR L2	6860, PSDTX1464
608	LOADING SCALPERATOR L1	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
609	LOADING SCAPERATOR L2	6860, PSDTX1464
612-101116	TANK	106.472/09/04/2000
612-143515	CL-361 TANK	106.472/09/04/2000
612-151108	TANK	106.472/09/04/2000
612-151109	TANK	106.472/09/04/2000
612-151115	BOILERGUARD MB3A TANK	51/05/04/1994
612-151116	CAT FLOC DL TANK	51/05/04/1994
612-23481	CAT FLOC DL TANK	51/05/04/1994
612-C20542	TANK	106.472/09/04/2000
612-C22349	TANK	106.472/09/04/2000
612-C22457	TANK	106.472/09/04/2000
612-D4704	BUTENE TANK	83/03/15/1985
612-D4718	TEAL TANK	83/03/15/1985
612-D4723	THF TANK	83/03/15/1985
612-D4725	TMA/HEXANE TANK	83/03/15/1985
612-D4749	BUTENE STORAGE	8758
612-D4752	TEAL TANK	83/03/15/1985
612-D4754	TMA/ISOPENTANE TANK	83/03/15/1985
612-D4758	ISOPENTANE TANK	83/03/15/1985
612-D645	PEROXIDE/OMS TANK	6860, PSDTX1464
612-D646	PROPYLENE TANK	83/03/15/1985

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
612-D647-1	PEROXIDE TANK	83/03/15/1985
612-D647-2	PEROXIDE TANK	83/03/15/1985
612-D652	PROPIONALDEHYDE TANK	6860, PSDTX1464
612-D670	METHANOL TANK	83/03/15/1985
612-D702	SULFURIC ACID TANK	15/09/17/1973
612-D703	CAUSTIC TANK	51/11/05/1986
612-D716	DIESEL FUEL TANK	6860, PSDTX1464
612-D716A	DIESEL FUEL TANK	6860, PSDTX1464
612-F102	COOLANT OIL TANK	6860, PSDTX1464
612-F108	WITCO OIL TANK	6860, PSDTX1464
612-F109	DTE OIL TANK	6860, PSDTX1464
612-F4706	DIESEL TANK	8758
612-F5959	TNPP TANK	8758
612-F6640A	OMS/PEROXIDE STORAGE TANK	8758
612-F6640B	OMS/PEROXIDE STORAGE TANK	8758
612-F670	SOLVENT TANK	6860, PSDTX1464
612-F676	LUBE OIL	106.472/03/14/1997
612-F706	SLOP OIL TANK	6860, PSDTX1464
612-F710	OILY WATER TANK	51/11/05/1986
612-F714	WASTE FUEL TANK	6860, PSDTX1464
612-F723	SODIUM HYPOCHLORITE TANK	51/11/05/1986

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
612-F726	DIESEL	51/08/30/1988
612-F801	GASOLINE STORAGE TANK	6860, PSDTX1464
612-F802	DIESEL TANK	6860, PSDTX1464
612-F808	DIESEL TANK	51/08/30/1988
612-PK001	DIESEL	106.472/03/14/1997
612-TS1316	DIESEL	51/07/20/1992
615A	SAMPLER VENT CYCLONE	6860, PSDTX1464
615B	SAMPLER VENT CYCLONE	6860, PSDTX1464
615C	SAMPLER VENT CYCLONE	6860, PSDTX1464
618	BLENDING SILOS VENT L3	6860, PSDTX1464
619	SAMPLER CYCLONE VENT	6860, PSDTX1464
620	LOADING ELUTRIATOR CYCLONE VENT L3	6860, PSDTX1464
621	SCALPERATOR CYCLONE VENT	6860, PSDTX1464
627	BLENDING SILOS VENT L3	6860, PSDTX1464
628	BLENDING SILOS VENT L3	6860, PSDTX1464
641A	ANALYZER VENT	8758
642A	ANALYZER VENT	8758
642B	ANALYZER VENT	8758
642C	ANALYZER VENT	8758
642D	ANALYZER VENT	8758
642E	ANALYZER VENT	8758

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
642G	ANALYZER VENT	8758
642H	ANALYZER VENT	8758
643	ANALYZER VENT	8758
645	SURGE SILO L4AB	8758
650	SPIN DRYER L4A	8758
651	SPIN DRYER L4B	8758
652	BLENDING SILO L4A	8758
653	BLENDING SILO L4B	8758
654AB	LOADING ELUTRIATORS L4A	8758
655AB	LOADING SCALPERATORS L4B	8758
656	HOPPER CAR LOADING L4A	8758
657	HOPPER CAR LOADING L4B	8758
662	SURGE SILO L4AB	8758
663	SURGE SILO L4AB	8758
664	SURGE SILO L4AB	8758
665	LOADOUT SURGE VESSEL L5	8758
666	LOADOUT SURGE VESSEL L5	8758
667	PREFILL BIN L5	8758
668	PREFILL BIN L5	8758
669	PREFILL BIN L5	8758
670	PREFILL BIN L5	8758

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
671	PREFILL BIN L5	8758
672	PREFILL BIN L5	8758
673	PREFILL BIN L5	8758
674	PREFILL BIN L5	8758
675	LOADOUT SURGE VESSEL L6	8758
676	LOADOUT SURGE VESSEL L6	8758
677	PREFILL BIN L6	8758
678	PREFILL BIN L6	8758
679	PREFILL BIN L6	8758
680	PREFILL BIN L6	8758
681	PREFILL BIN L6	8758
682	PREFILL BIN L6	8758
683	PREFILL BIN L6	8758
684	PREFILL BIN L6	8758
686	COMPOUNDING SEED SILO L4AB, L5, L6	8758
687	MIXER FEED HOPPER VENT L5	8758
688	MIXER FEED HOPPER VENT L6	8758
689	PELLET BLEND SILO L5	8758
690	PELLET BLEND SILO L6	8758
691	PELLET BLEND SILO L5	8758
692	PELLET BLEND SILO L6	8758

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
695	COMPOSITE PELLET SAMPLE POT L4B	8758
696	COMPOSITE PELLET SAMPLE POT L4A	8758
697	COMPOSITE PELLET SAMPLE POT L5	8758
698	COMPOSITE PELLET SAMPLE POT L6	8758
699	COMPOSITE PELLET SAMPLE POT L5	8758
701	HPPE FLARE	6860, PSDTX1464
701V	PROCESS VENT STREAM TO HPP FLARE	6860, PSDTX1464
702	BOILER/VENT GAS STACK	6860, PSDTX1464
703	BOILER/VENT GAS STACK	6860, PSDTX1464
704	BOILER/VENT GAS STACK	6860, PSDTX1464
721	LPPE FLARE-AIR ASSIST	8758
721V	PROCESS VENT STREAM TO LPPE FLARE	8758
723	STEAM GENERATOR STACK	8758
723A	STEAM GENERATOR STACK	8758
817	RX60 VENT	8758
819A	ANALYZER VENT	8758
819B	ANALYZER VENT	8758
819C	ANALYZER VENT	8758
819D	ANALYZER VENT	8758
819E	ANALYZER VENT	8758
821	PROD CONVEY SYSTEM VENT, REACTOR 60	8758

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
845	SURGE SILO L4AB	8758
850	SPIN DRYER L5	8758
851	SPIN DRYER L6	8758
854	ELUTRIATOR L5	8758
855	ELUTRIATOR L6	8758
858	LPPE FLARE-LRGO	8758
858V	PROCESS VENT STREAM TO LRGO FLARE	8758
861	RX44 VENT	8758
862	RX45 VENT	8758
863	F-6705 HEXENE TANK	8758
866	SURGE SILO L6	8758
867	SURGE SILO L6	8758
868	SURGE SILO L6	8758
869	SURGE SILO L6	8758
870	SURGE SILO L6	8758
871	BOOSTER BLOWER L4AB	8758
872	BOOSTER BLOWER L5	8758
873	BOOSTER BLOWER L6	8758
878	PELLET BLEND SILO L5	8758
879	PELLET BLEND SILO L6	8758
884	PRIME FEED SILO L5	8758

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
886	W/S FEED SILO L5	8758
889	PRIME FEED SILO L6	8758
891	W/S FEED SILO L6	8758
900	SEED BOOSTER BLOWER L4AB, L5, L6	8758
910	PRIME PE FEEDER L4B	8758
911	W/S FEEDER SILO L4B	8758
924	GRANULAR HOLDUP BIN L4B	8758
925	PRODUCT SILO L4B	8758
926	PRODUCT SILO L4B	8758
927	GRANULAR FILLER RECEIVER L4B	8758
928	SCALPERATOR L4A	8758
929	PRODUCT SILO VENT L4B	8758
930	PRIME FEED SILO L4A	8758
931	W/S FEED SILO VENT L4A	8758
944	GRANULAR HOLDUP BIN L4A	8758
945	PRODUCT SILO L4A	8758
946	PRODUCT SILO L4A	8758
947	PRODUCT SILO L4A	8758
948	SCALPERATOR L4B	8758
949	GRANULAR FILTER RECEIVER L4A	8758
953	COMPOUND SAMPLER L5	8758

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
954	SAMPLER	8758
955	PELLET HOLDUP BIN L4A	8758
956	PELLET HOLDUP BIN L4B	8758
957	PELLET HOLDUP BIN L5	8758
958	PELLET HOLDUP BIN L6	8758
959	PELLET SAMPLE HOPPER L4B	8758
960	PELLET SAMPLE HOPPER L4A	8758
961	PELLET SAMPLE HOPPER L5	8758
962	PELLET SAMPLE HOPPER L6	8758
963	PELLET RECLAIM SAMPLE BIN L4AB, L5, L6	8758
973	SURGE SILO FILTER L5	8758
976	STEAM GENERATOR STACK	8758
991	FEED PURIFICATION	8758
992	FEED PURIFICATION	8758
993A	CHARGE POT	8758
AT360	ANALYZER VENT	106.261/11/01/2003
AT361	ANALYZER VENT	106.261/11/01/2003
B-4901	STEAM GENERATOR	8758
B-4902	STEAM GENERATOR	8758
B-4903	STEAM GENERATOR	8758
B500	PROCESS HEATER 502	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
B700	BOILER	6860, PSDTX1464
B700A	BOILER	6860, PSDTX1464
B704	BOILER	6860, PSDTX1464
D-128	BLOWDOWN DRUM VENT	6860, PSDTX1464
D-228	BLOWDOWN DRUM VENT	6860, PSDTX1464
D-3328	BLOWDOWN DRUM VENT	6860, PSDTX1464
DEGR4	CORE 1 DEGREASER (EPN: 985)	6860, PSDTX1464
DEGR5	CORE 2 DEGREASER (EPN: 986)	6860, PSDTX1464
DEGR6	HP PIPE SHOP DEGREASER (EPN: 987)	6860, PSDTX1464
F-7001	DIESEL TANK	106.472/09/04/2000
F-706LOAD	F-706 LOADING	6860, PSDTX1464
F-711	OIL AND WATER SEPARATOR	6860, PSDTX1464
F-712	OIL AND WATER SEPARATOR	6860, PSDTX1464
F-714LOAD	F-714 LOADING	6860, PSDTX1464
F700	COOLING TOWER	6860, PSDTX1464
F701	COOLING TOWER #2	8758
G-650	STORM SUMP PUMP DIESEL ENGINE	106.511/09/04/2000
HP-ENG-003	DIESEL AIR COMPRESSOR	106.512/06/13/2001
HP-ENG-004	DIESEL AIR COMPRESSOR	106.512/06/13/2001
HP-ENG-006	BACKUP AIR COMPRESSOR	106.512/06/13/2001
HPFUG	HIGH PRESSURE FUGITIVES	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
LINE 45	LINE 45 MATERIAL RECOVERY PURGE	8758
LINE 60	LINE 60 PURGE SYSTEM	8758
LINE44	LINE 44 MATERIAL RECOVERY PURGE	8758
LPFUG	LOW PRESSURE FUGITIVES	8758
M-4799	EMERGENCY GENERATOR (EPN: 980)	8758
M-701	EMERGENCY GENERATOR (EPN: 979)	5/05/04/1994
M-705	FIRE WATER PUMP DIESEL ENGINE (EPN: 977)	5/05/04/1994
M-706	FIRE WATER PUMP DIESEL ENGINE (EPN: 978)	5/05/04/1994
M2CAN	MAINT - AERSOL CANS	106/05/04/1994
M5PAINT	PAINTING	106.433/09/04/2000, 106.452/09/04/2000
PROHPMR	HP MATERIAL RECOVERY	6860, PSDTX1464
PROHPPFL1	HP PRODUCT FINISHING L1	6860, PSDTX1464
PROHPPFL2	HP PRODUCT FINISHING L2	6860, PSDTX1464
PROHPPFL3	HP PRODUCT FINISHING L3	6860, PSDTX1464
PROHPPRL1	HP POLYMERIZATION REACTION L1	6860, PSDTX1464
PROHPPRL2	HP POLYMERIZATION REACTION L2	6860, PSDTX1464
PROHPPRL3	HP POLYMERIZATION REACTION L3	6860, PSDTX1464
PROHPPSL1	HP PRODUCT STORAGE L1	6860, PSDTX1464
PROHPPSL2	HP PRODUCT STORAGE L2	6860, PSDTX1464
PROHPPSL3	HP PRODUCT STORAGE L3	6860, PSDTX1464
PROHPRMP	HP RAW MATERIAL PREPARATION	6860, PSDTX1464

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
PROLDPE	HP UNIT CMPU	6860, PSDTX1464
PROLPMR	LP MATERIAL RECOVERY (PROCESS)	8758
PROLPPF4AB	LP PRODUCT FINISHING L4A, L4B (PROCESS)	8758
PROLPPF5	LP PRODUCT FINISHING L5 (PROCESS)	8758
PROLPPF6	LP PRODUCT FINISHING L6 (PROCESS)	8758
PROLPPS4AB	LP PRODUCT STORAGE L4AB (PROCESS)	8758
PROLPPS5	LP PRODUCT STORAGE L5 (PROCESS)	8758
PROLPPS6	LP PRODUCT STORAGE L6 (PROCESS)	8758
PROLPRMP	LP RAW MATERIAL PREPARATION (PROCESS)	8758
PROLPRX44	LP POLYMERIZATION REACTION REACTOR 44 (PROCESS)	8758
PROLPRX45	LP POLYMERIZATION REACTION REACTOR 45 (PROCESS)	8758
PROLPRX60	LP POLYMERIZATION REACTION REACTOR 60 (PROCESS)	8758
RAIL-LOAD1	BUTENE RAILCAR LOADING/UNLOADING	6860, PSDTX1464
RAIL-LOAD2	HEXENE RAILCAR UNLOADING	6860, PSDTX1464
RAIL-LOAD3	ISOPENTANE RAILCAR UNLOADING	6860, PSDTX1464
RAIL-LOAD4	PROPYLENE RAILCAR UNLOADING	6860, PSDTX1464
TRK-LOAD1	METHANOL TRUCK UNLOADING	6860, PSDTX1464
TRK-LOAD2	PROPIONALDEHYDE TRUCK UNLOADING	6860, PSDTX1464

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Appendix A

Acronym List 141

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO ₂	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound

Appendix B

Major NSR Summary Table 143

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
102	Hyper Compressor Vent	VOC	0.50	2.20	20, 21	20, 21	
104	Spin Dryer	PM	(7)	(7)	5, 6, 20, 21	5, 6, 20, 21	
		PM ₁₀	(7)	(7)			
		PM _{2.5}	(7)	(7)			
		VOC	(6)	(6)			
202	Hyper Compressor Vent	VOC	0.50	2.20	20, 21	20, 21	
204	Spin Dryer	PM	(7)	(7)	5, 6, 20, 21	5, 6, 20, 21	
		PM ₁₀	(7)	(7)			
		PM _{2.5}	(7)	(7)			
		VOC	(6)	(6)			
301	Hyper Compressor Vent	VOC	0.50	2.20	20, 21	20, 21	
307	Spin Dryer	PM	0.34	1.10	5, 6, 20, 21	5, 6, 20, 21	

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM ₁₀	0.34	1.10			
		PM _{2.5}	0.34	1.10			
		VOC	(6)	(6)			
502	MSR Heater B-502	CO	0.02	0.09	3, 20, 21	3, 20, 21	3
		NO _x	0.02	0.11			
		PM	0.01	0.01			
		PM ₁₀	0.01	0.01			
		PM _{2.5}	0.01	0.01			
		SO ₂	0.01	0.01			
		VOC	0.01	0.01			
601	Dust Collector	PM	0.14	0.60	15	15	
		PM ₁₀	0.14	0.60			
		PM _{2.5}	0.14	0.60			
602A,603A	Hopper	PM	0.29	0.69			

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
	Vents (8)	PM ₁₀	0.29	0.69			
		PM _{2.5}	0.29	0.69			
602B	Hopper Vent	PM	0.08	0.34			
		PM ₁₀	0.08	0.34			
		PM _{2.5}	0.08	0.34			
603B	Hopper Vent	PM	0.08	0.34			
		PM ₁₀	0.08	0.34			
		PM _{2.5}	0.08	0.34			
604	Line 1 Blend Silo Dust Collector	PM	1.08	4.75			
		PM ₁₀	1.08	4.75			
		PM _{2.5}	1.08	4.75			
		VOC	(6)	(6)			
605	Line 2 Blend Silo Dust Collector	PM	1.08	4.75			
		PM ₁₀	1.08	4.75			

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM _{2.5}	1.08	4.75			
		VOC	(6)	(6)			
606	Cyclone	PM	0.17	0.75			
		PM ₁₀	0.17	0.75			
		PM _{2.5}	0.17	0.75			
		VOC	(6)	(6)			
607	Cyclone	PM	0.17	0.75			
		PM ₁₀	0.17	0.75			
		PM _{2.5}	0.17	0.75			
		VOC	(6)	(6)			
608	Cyclone	PM	0.51	2.25			
		PM ₁₀	0.51	2.25			

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM _{2.5}	0.51	2.25			
		VOC	(6)	(6)			
609	Cyclone	PM	0.51	2.25			
		PM ₁₀	0.51	2.25			
		PM _{2.5}	0.51	2.25			
		VOC	(6)	(6)			
612-D645	Slop Tank	VOC	0.05	0.01	19, 21, 23	19, 21, 23	
612-D716	Diesel Tank	VOC	1.10	0.01	19, 21, 23	19, 21, 23	
612-D716A	Diesel Tank	VOC	1.10	0.01	19, 21, 23	19, 21, 23	
612-F102	Coolant Tank	VOC	0.03	0.01	19, 21, 23	19, 21, 23	
612-F108	Oil Tank	VOC	0.03	0.01	19, 21, 23	19, 21, 23	
612-F109	Oil Tank	VOC	0.03	0.01	19, 21, 23	19, 21, 23	
612-F670	OMS Tank	VOC	0.64	0.01	19, 21, 23	19, 21, 23	
612-F706	Oil Tank	VOC	15.00	3.03	19, 21, 23	19, 21, 23	

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
612-F801	Gasoline Tank	VOC	5.20	0.82	19, 21, 23	19, 21, 23	
612-F802	Diesel Tank	VOC	0.01	0.01	19, 21, 23	19, 21, 23	
616A,617A, 625A	Hopper Vents (9)	PM	1.00	3.75			
		PM ₁₀	1.00	3.75			
		PM _{2.5}	1.00	3.75			
616B	Hopper Vent	PM	0.08	0.34			
		PM ₁₀	0.08	0.34			
		PM _{2.5}	0.08	0.34			
617B	Hopper Vent	PM	0.08	0.34			
		PM ₁₀	0.08	0.34			
		PM _{2.5}	0.08	0.34			
620	Flotriator Cyclone	PM	0.88	3.87			
		PM ₁₀	0.88	3.87			

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM _{2.5}	0.88	3.87			
		VOC	(6)	(6)			
621	Scalperator Cyclone	PM	0.77	3.38			
		PM ₁₀	0.77	3.38			
		PM _{2.5}	0.77	3.38			
		VOC	(6)	(6)			
625B	Line 3 Rerun Vacuum Hopper	PM	0.01	0.02			
		PM ₁₀	0.01	0.02			
		PM _{2.5}	0.01	0.02			
626A and 626C	Line 3 Masterbatch Hopper (10)	PM	0.47	1.10			
		PM ₁₀	0.47	1.10			
		PM _{2.5}	0.47	1.10			
626B	Line 3 Masterbatch Hopper	PM	0.01	0.02			
		PM ₁₀	0.01	0.02			

Major NSR Summary Table

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM _{2.5}	0.01	0.02			
627	Line 3 Blend Silos	PM	0.44	0.23			
		PM ₁₀	0.44	0.23			
		PM _{2.5}	0.44	0.23			
		VOC	(6)	(6)			
628	Line 3 Blend Silos	PM	0.44	0.23			
		PM ₁₀	0.44	0.23			
		PM _{2.5}	0.44	0.23			
		VOC	(6)	(6)			
631	Lines 1, 2, and 3 Rerun Filter Receiver	PM	0.16	0.71			
		PM ₁₀	0.16	0.71			
		PM _{2.5}	0.16	0.71			
632	MB and Rerun Cyclone	PM	0.23	1.02			
		PM ₁₀	0.23	1.02			

Major NSR Summary Table

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
	Dust Collector	PM _{2.5}	0.23	1.02			
701	Flare	CO	477.61	155.00	3, 9, 18, 19, 20, 21, 34, 36, 38, 39, 40, 41, 45, 46, 47, 49, 50, 54, 56, 57, 58	3, 9, 18, 19, 20, 21, 34, 36, 38, 39, 40, 41, 45, 46, 47, 49, 50, 54, 56, 57, 58, 59, 60	3, 18, 49
		NO _x	114.44	26.40			
		SO ₂	0.11	0.37			
		VOC	392.49	52.34			
702	Boiler B-701	CO	3.13		3, 20, 21	3, 20, 21	3, 20, 21
		NO _x	3.73				
		PM	0.28				
		PM ₁₀	0.28				
		PM _{2.5}	0.28				
		SO ₂	0.02				
		VOC	0.71				

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
703	Boiler B-701A	CO	3.13		3, 20, 21	3, 20, 21	3
		NO _x	3.73				
		PM	0.28				
		PM ₁₀	0.28				
		PM _{2.5}	0.28				
		SO ₂	0.02				
		VOC	0.71				
704	Boiler B-701B	CO	3.13		3, 20, 21	3, 20, 21	3
		NO _x	3.73				
		PM	0.28				
		PM ₁₀	0.28				
		PM _{2.5}	0.28				

Major NSR Summary Table

Permit Numbers: 6860 and PSDTX1464					Issuance Date: 07/31/2020		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		SO ₂	0.02				
		VOC	0.71				
702, 703, and 704	Boilers B-701, B-701A, and B-701B (11)	CO		30.84	3, 20, 21	3, 20, 21	3
		NO _x		36.71			
		PM		2.79			
		PM ₁₀		2.79			
		PM _{2.5}		2.79			
		SO ₂		0.22			
		VOC		4.31			
714	Wastewater Area Fugitives (5)	VOC	0.01	0.01			
985, 986, 987, and 990	Degreasers (12)	VOC	0.84	0.80	20, 21	20, 21	

Major NSR Summary Table

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
MSS	See Attachment C	CO	0.83	0.01	19, 20, 21, 22, 23, 24, 25	19, 20, 21, 22, 23, 24, 25	
		NO _x	0.98	0.01			
		PM	0.19	0.50			
		PM ₁₀	0.19	0.50			
		PM _{2.5}	0.19	0.50			
		SO ₂	0.01	0.01			
		VOC	279.34	4.97			
HPFUGEM	High Pressure Unit Fugitives (5)	VOC	16.66	72.99	3, 16, 17, 18, 19, 20, 21, 28	3, 16, 17, 18, 19, 20, 21, 28	3, 18
618	Transfer Cyclone	PM	2.73	11.98	5	5	
		PM ₁₀	2.73	11.98			
		PM _{2.5}	2.73	11.98			
		VOC	97.91	271.36			

- (1) Emission point identification – either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)
 - CO - carbon monoxide
 - NO_x - total oxides of nitrogen
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Total residual VOC emissions from EPNs 104, 204, 307, 604, 605, 606, 607, 608, 609, 618, 620, 621, 627, and 628 are listed under EPN 618.
- (7) Total spin dryer particulate emissions from EPNs 104, 204, and 307 are listed under EPN 307.
- (8) Total emissions for EPNs 602A and 603A.
- (9) Total emissions for EPNs 616A, 617A, and 625A.
- (10) Total emissions for EPNs 626A and 626C.
- (11) Total emissions for EPNs 702, 703, and 704.
- (12) Total emissions for EPNs 985, 986, 987, and 990.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
ExxonMobil Oil Corporation
Authorizing the Continued Operation of
ExxonMobil Oil Beaumont Polyethylene Plant
Located at Beaumont, Jefferson County, Texas
Latitude 30° 3' 45" Longitude -94° 13' 54"

Permit: 6860 and PSDTX1464

Issuance Date: July 31, 2020

Expiration Date: July 31, 2030



For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] ¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. ¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius	GLCmax = maximum (predicted) ground-level concentration
°F = Temperature in degrees Fahrenheit	gpm = gallon per minute
°K = Temperature in degrees Kelvin	gr/1000scf = grain per 1000 standard cubic feet
µg = microgram	gr/dscf = grain per dry standard cubic feet
µg/m ³ = microgram per cubic meter	H ₂ CO = formaldehyde
acfm = actual cubic feet per minute	H ₂ S = hydrogen sulfide
AMOC = alternate means of control	H ₂ SO ₄ = sulfuric acid
AOS = alternative operating scenario	HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
AP-42 = Air Pollutant Emission Factors, 5th edition	HC = hydrocarbons
APD = Air Permits Division	HCl = hydrochloric acid, hydrogen chloride
API = American Petroleum Institute	Hg = mercury
APWL = air pollutant watch list	HGB = Houston/Galveston/Brazoria
BPA = Beaumont/ Port Arthur	hp = horsepower
BACT = best available control technology	hr = hour
BAE = baseline actual emissions	IFR = internal floating roof tank
bbl = barrel	in H ₂ O = inches of water
bbl/day = barrel per day	in Hg = inches of mercury
bhp = brake horsepower	IR = infrared
BMP = best management practices	ISC3 = Industrial Source Complex, a dispersion model
Btu = British thermal unit	ISCST3 = Industrial Source Complex Short-Term, a dispersion model
Btu/scf = British thermal unit per standard cubic foot or feet	K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
CAA = Clean Air Act	LACT = lease automatic custody transfer
CAM = compliance-assurance monitoring	LAER = lowest achievable emission rate
CEMS = continuous emissions monitoring systems	lb = pound
cfm = cubic feet (per) minute	hp = horsepower
CFR = Code of Federal Regulations	hr = hour lb/day = pound per day
CN = customer ID number	lb/hr = pound per hour
CNG = compressed natural gas	lb/MMBtu = pound per million British thermal units
CO = carbon monoxide	LDAR = Leak Detection and Repair (Requirements)
COMS = continuous opacity monitoring system	LNG = liquefied natural gas
CPMS = continuous parametric monitoring system	LPG = liquefied petroleum gas
DFW = Dallas/ Fort Worth (Metroplex)	LT/D = long ton per day
DE = destruction efficiency	m = meter
DRE = destruction and removal efficiency	m ³ = cubic meter
dscf = dry standard cubic foot or feet	m/sec = meters per second
dscfm = dry standard cubic foot or feet per minute	MACT = maximum achievable control technology
ED = (TCEQ) Executive Director	MAERT = Maximum Allowable Emission Rate Table
EF = emissions factor	MERA = Modeling and Effects Review Applicability
EFR = external floating roof tank	mg = milligram
EGU = electric generating unit	mg/g = milligram per gram
EI = Emissions Inventory	mL = milliliter
ELP = El Paso	MMBtu = million British thermal units
EPA = (United States) Environmental Protection Agency	MMBtu/hr = million British thermal units per hour
EPN = emission point number	MSDS = material safety data sheet
ESL = effects screening level	MSS = maintenance, startup, and shutdown
ESP = electrostatic precipitator	MW = megawatt
FCAA = Federal Clean Air Act	NAAQS = National Ambient Air Quality Standards
FCCU = fluid catalytic cracking unit	NESHAP = National Emission Standards for Hazardous Air Pollutants
FID = flame ionization detector	NGL = natural gas liquids
FIN = facility identification number	NNSR = nonattainment new source review
ft = foot or feet	NO _x = total oxides of nitrogen
ft/sec = foot or feet per second	
g = gram	
gal/wk = gallon per week	
gal/yr = gallon per year	
GLC = ground level concentration	

NSPS = New Source Performance Standards
 PAL = plant-wide applicability limit
 PBR = Permit(s) by Rule
 PCP = pollution control project
 PEMS = predictive emission monitoring system
 PID = photo ionization detector
 PM = periodic monitoring
 PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
 PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 POC = products of combustion
 ppb = parts per billion
 ppm = parts per million
 ppmv = parts per million (by) volume
 psia = pounds (per) square inch, absolute
 psig = pounds (per) square inch, gage
 PTE = potential to emit
 RA = relative accuracy
 RATA = relative accuracy test audit
 RM = reference method
 RVP = Reid vapor pressure
 scf = standard cubic foot or feet
 scfm = standard cubic foot or feet (per) minute
 SCR = selective catalytic reduction
 SIL = significant impact levels
 SNCR = selective non-catalytic reduction
 SO₂ = sulfur dioxide
 SOCMF = synthetic organic chemical manufacturing industry
 SRU = sulfur recovery unit
 TAC = Texas Administrative Code
 TCAA = Texas Clean Air Act
 TCEQ = Texas Commission on Environmental Quality
 TD = Toxicology Division
 TLV = threshold limit value
 TMDL = total maximum daily load
 tpd = tons per day
 tpy = tons per year
 TVP = true vapor pressure
 VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 6860 and PSDTX1464

Special Condition (SC) Nos. 4 through 18 apply to the normal operations of the sources covered under this permit. SC Nos. 19 through 29 apply to the planned maintenance, startup, and shutdown activities authorized by this permit. SC Nos. 31 through 60 apply to the requirements incorporated from the Consent Decree (Civil Action No. 4:17-cv-3302) which was effective on June 06, 2018.

Emission Limitations

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT) and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating requirements specified in the special conditions.

Federal Applicability

2. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
 - A. Subpart A, General Provisions.
 - B. Subpart IIII, National Emission Standards for Stationary Compression Ignition Internal Combustion Engines.
 - C. Subpart JJJJ, National Emission Standards for Stationary Spark Ignition Internal Combustion Engines.
3. These facilities shall comply with all applicable requirements of EPA regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
 - A. Subpart A, General Provisions.
 - B. Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process.
 - C. Subpart UU National Emission Standards for Equipment Leaks - Control Level 2 Standards.
 - D. Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.
 - E. Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
 - F. Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters.

Operational Limitations, Work Practices, and Plant Design

4. Opacity of emissions from all boilers and heaters shall not exceed 5 percent averaged over a six-minute period, except for those periods described in Title 30 Texas Administrative Code § 111.111(a)(1)(E) [30 TAC § 111.111(a)(1)(E)].

5. Monthly records of total production of polyethylene products from Reaction Lines 100, 200, and 300 shall be maintained showing the production per rolling 12-month period. For the purpose of assuring compliance with the volatile organic compounds (VOC) residual pellet emission rate shown at Emission Point No. (EPN) 618, the holder of this permit shall calculate the VOC residual pellet emissions for the month and the residual pellet emissions per rolling 12-month period.
6. The following applies to commercial products as well as new products.
 - A. The combined ethylene emissions to the atmosphere downstream of the extruder shall not exceed 1,100 pounds per million pounds of product produced for Production Lines 100 and 200.
 - B. The combined ethylene emissions to the atmosphere downstream of the extruder shall not exceed 750 pounds per million pounds of product produced for Production Line 300.
 - C. Vinyl acetate emissions from the pellets downstream of the extruder for Production Line 100 shall not exceed 500 pounds per million pounds of product produced.
 - D. Propylene emissions from the pellets downstream of the extruder in Reaction Line 100 shall not exceed 45 pounds per million pounds of product produced.
 - E. Propionaldehyde emissions from the pellets downstream of the extruder in Reaction Lines 100, 200, and 300 shall not exceed 30 pounds per million pounds of product produced.

The permit holder shall test samples of polyethylene for ethylene, vinyl acetate, propylene, and propionaldehyde using the vial headspace analysis method or the beverage can method every other week. Compliance with the emission limitations in Paragraphs A through E of this condition shall be based on the monthly average of sampling results. Samples for the test(s) shall be taken at the inlet to the spin dryer. Records of each test shall be kept. Production rates at the time of sample collection shall also be recorded.
7. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table. Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions with the exception of those listed below.
 - A. Safety relief valves that discharge to the atmosphere only as a result of fire or failure of utilities;
 - B. The valves listed in Table 1; and
 - C. The Reactor Emergency Relief Valves.
8. Working and breathing losses from the relief vents of Storage Tank Nos. D-652, D-670, D-4705, F-713, and F-714 shall be routed to the Flare (EPN 701).
9. Flares shall be designed and operated in accordance with the following requirements:
 - A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the Title 40 Code of Federal Regulations § 60.18 (40 CFR § 60.18) specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

- B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.
- C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of air assist to the flare.
- D. The permit holder shall install a continuous flow monitor and analyzer that provide a record of the flow and net heating value of the vent stream to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and heating value shall be recorded each hour.

The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be ± 5.0 percent or ± 10 cfm (whichever is greater) over the velocity range 0.1 to 250 ft/sec and ± 5.0 percent at velocity ranges greater than 250 ft/sec, temperature monitor shall be ± 2.0 percent at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg.

The calorimeter shall be calibrated, installed, operated, and maintained, in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.

The monitors and analyzers shall operate as required by this section at least 95 percent of the time when the flare is operational, averaged over a rolling 12 month period. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes.

- 10. The cooling tower shall be equipped with a Lower Explosive Limit (LEL) detector which alarms in the control room when the VOC level increases indicating a process leak into the cooling water system. Whenever the cooling tower LEL alarm is activated, action shall be taken as soon as possible to locate and contain the leak. Faulty equipment shall be repaired at the earliest opportunity, but no later than the next scheduled shutdown of the process unit in which the leak occurs. The cause of any alarm and all repairs shall be recorded.
- 11. Fuel for Heater B-502 (EPN 502) and supplemental fuel to the Flare (EPN 701) shall contain no more than 5 grains of total sulfur per 100 dry standard cubic feet.
- 12. Fuel for Boilers B-701, B-701A, and B-701B (EPNs 702, 703, and 704) shall be either sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet, or a blend of sweet natural gas and process gas generated by this plant. If blend gas is used, the overall blend gas stream shall contain no more than 5 grains of total sulfur per 100 dry standard cubic feet.
- 13. As an alternative to comparing the daily emission rate of the components on the delay of repair (DOR) list to the total emissions from the unit shutdown emissions per the requirements of

Paragraph H of SC No. 16, the cumulative hourly emission rate of all components on the DOR list may be compared to 10 percent of the fugitive emissions short term limit authorized in the maximum allowable emission rate table (MAERT) in order to determine if notification to the TCEQ Regional Director is required.

14. Pressed and permanently formed metal to metal seals may be used as an alternative to welded or flanged connections on new and reworked piping.
15. The following shall apply to the Dust Collector (EPN 601):
 - A. Particulate matter grain loading shall not exceed 0.01 grain per dscf of air from any vent. There shall be no visible emissions exceeding 30 seconds in any six-minute period as determined using EPA Test Method 22.
 - B. The vents covered by this condition shall not operate unless control devices and associated equipment are maintained in good working order and operating. All vents covered by this condition will be inspected for visible emissions once per quarter. Records shall be maintained of all inspections and maintenance performed.

Leak Detection and Repair Monitoring Programs

16. Piping, Valves, Connectors, Pumps, Agitators and Compressors, in contact with VOC - Intensive Directed Maintenance - 28MID

Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:

- A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

The exempted components may be identified by one or more of the following methods:

 - (1) piping and instrumentation diagram (PID);
 - (2) a written or electronic database or file;
 - (3) color coding;
 - (4) a form of weatherproof identification; or
 - (5) designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by 30 TAC Chapter 115, shall be identified in a list to be made available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in Paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

- (1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or
 - (2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open-ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv above background and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.
- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

An approved gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response

factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

- G. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

- H. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.
- I. In lieu of the monitoring frequency specified in Paragraph F of this condition, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

- J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

$$(V_l + V_s) \times 100/V_t = V_p$$

Where:

V_l = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

V_s = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

V_t = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor valves.

V_p = the percentage of leaking valves for the monitoring period.

- K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- L. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.
17. In addition to the weekly physical inspection required by Paragraph E of SC No. 16, all accessible connectors in gas/vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Paragraphs F thru I and K of SC No. 16.
- A. Allowance for reduced monitoring frequencies.
- (1) The frequency of monitoring may be reduced from quarterly to semiannually if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.
- (2) The frequency of monitoring may be reduced from semiannually to annually if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.
- B. If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph. The percent of connectors leaking used in paragraph A shall be determined using the following formula:

$$(CI + Cs) \times 100/Ct = Cp$$

Where:

- CI = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.
- Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.
- Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.
- Cp = the percentage of leaking connectors for the monitoring period.

Compliance Assurance Monitoring (CAM)

18. The following requirements apply to the capture systems for the plant flare identified as EPN 701.
- A. Each capture system for the control device identified as EPN 701 shall comply with one of the following:
 - (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
 - (2) verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21 once a year. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.
 - B. The control device identified as EPN 701 shall comply with one of the following:
 - (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
 - (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals that prevent flow out the bypass.
 - C. The requirements in B of this condition do not apply to high point vent and low point drain valves. A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when required to be in service per this permit.
 - D. If any of the inspections under A, and B of this condition is not satisfactory, the permit holder shall promptly take necessary corrective action. Records shall be maintained documenting the performance and results of the inspections required in this condition.

Planned Maintenance, Startup, and Shutdown (MSS) Operations

19. This permit authorizes the emissions from the facilities identified in Attachment D for the planned MSS activities summarized in the MSS Activity Summary (Attachment C) attached to this permit.

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the

potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

Unless otherwise prescribed in this permit, the performance of each planned MSS activity not identified in Attachments A or B and the emissions associated with it shall be recorded and include at least the following information:

- A. The physical location at which emissions from the MSS activity occurred, including the emission point number and common name for the point at which the emissions were released into the atmosphere;
- B. The type of planned MSS activity and the reason for the planned activity;
- C. The common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;
- D. The start date and time of the MSS activity and its duration;
- E. The estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

Emissions from all completed planned MSS activities shall be summed for each calendar month, and the rolling 12-month emissions shall be updated by the end of the next calendar month.

- 20. Process units and facilities, with the exception of those identified in SC Nos. 22, 23, 25, and Attachment A shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.
 - A. Process equipment that contains material with a VOC shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid.
 - B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than or equal to 0.50 psia at the normal process temperature and 95°F, any vents in the system shall be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.
 - C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids shall be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained. After draining

is complete, empty open pans may remain in use for housekeeping reasons to collect incidental drips.

- D. If the VOC partial pressure is greater than or equal to 0.50 psia at the normal process temperature and 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
- (1) For MSS activities identified in Attachment B, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere, except as necessary to verify an acceptable VOC concentration and establish isolation of the work area, until the VOC concentration has been verified to be less than 10 percent of the LEL (or equivalent) per the site safety procedures.
 - (2) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded. If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of SC No. 21. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed until the VOC concentration is less than 10,000 ppmv.
- E. Gases and vapors (including vapors from residual liquids) with a VOC partial pressure greater than or equal to 0.50 psia at 95°F may be vented directly to atmosphere if all the following criteria are met:
- (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
 - (2) There is not an available connection to a plant control system (flare).
 - (3) There is no more than 50 lb of air contaminants to be vented to atmosphere during shutdown or startup, as applicable.

All instances of venting directly to atmosphere per Paragraph E of this condition must be documented when occurring as part of any planned MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those MSS activities identified in Attachment B.

21. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

- A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR Part 60, Appendix A) with the following exceptions:
- (1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor of the VOC (or mixture of VOCs) to be monitored shall be less

than 2.0. The calibration gas and the gas to be measured, and its approximate response factor shall be recorded.

- (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time of sampling shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, and the highest stable measured VOC concentration shall be recorded.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

- (1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in Paragraph B(3) of this condition, the concentration measured is at least 20 percent of the maximum range of the tube.
- (2) The tube is used in accordance with the manufacturer's guidelines.
- (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) less than release concentration.

Where the release concentration is:

10,000 ppmv *(mole fraction of the total air contaminants present that can be detected by the tube).

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. The LEL shall be measured with a lower explosive limit detector, with the following requirements.

- (1) The detector shall be calibrated monthly with a certified pentane gas standard at 25 percent of the LEL for pentane. Records of the calibration date and time and the calibration result (pass/fail) shall be maintained.
- (2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration. The LEL detector shall read no lower than 90 percent of the calibration gas certified value. Records of the functionality test date and time and the test result (pass/fail) shall be maintained.
- (3) A certified methane gas standard equivalent to 25 percent of the LEL for pentane may be used for calibration and functionality tests provided that the LEL response is within 95 percent of that for pentane.

22. This permit authorizes emissions from storage tanks with an internal floating roof during planned floating roof landings. Tank floating roofs may only be landed for tank inspection/maintenance as identified in the permit application except when the VOC vapors below the floating roof are routed to a control device or a controlled recovery system from the time the floating roof is landed until the floating roof is within 10 percent by volume of being refloated. Tank floating roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the

maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank floating roof landings.

- A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank. This requirement does not apply where the VOC vapor under a floating roof is routed to a control device or a controlled recovery system during this process.
- B. If the VOC partial pressure of the liquid previously stored in the tank is greater than 0.50 psia at 95°F, tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained unless the vapor under the floating roof is routed to a control device or a controlled recovery system during this period. Floating roof tanks with liquid capacities less than 100,000 gallons may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank. Controlled degassing of the vapor space under landed roofs shall be completed as follows:
 - (1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.
 - (2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.
 - (3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof shall be passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in SC No. 21.
 - (4) The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.
 - (5) Degassing must be performed every 24 hours unless there is no standing liquid in the tank or the VOC partial pressure of the remaining liquid in the tank is less than 0.15 psia.
- C. The tank shall not be opened or ventilated without control, except as allowed by (1) or (2) below until one of the criteria in Paragraph D of this condition is satisfied.
 - (1) Minimize air circulation in the tank vapor space.
 - (a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall

be installed at all open manways and access points to minimize air flow through the tank.

- (b) Access points shall be closed when not in use.
- (2) Minimize time and VOC partial pressure.
 - (a) The VOC partial pressure of the liquid remaining in the tank shall not exceed 0.5 psia as documented by the method specified in Paragraph D(1).
 - (b) Blowers may be used to move air through the tank without emission control at a rate not to exceed 16,900 cfm for no more than 5 days. All standing liquids shall be removed from the tank during this period.
 - (c) Records shall be maintained of the blower circulation rate, the duration of uncontrolled ventilation, and the date and time all standing liquid was removed from the tank.
- D. The tank shall not be opened except as necessary to prepare for degassing and cleaning, or ventilated without control, until either there is no standing liquid in the tank or the liquid in the tank has a VOC partial pressure less than 0.02 psia. These criteria may be demonstrated in any one of the following ways.
 - (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
 - (2) If water is added or sprayed into the tank to remove standing VOC liquid, one of the following must be demonstrated:
 - (a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR 435 Subpart A Appendix 1.
 - (b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).
 - (c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1,000 ppmv through the procedure in SC No. 21.
 - (3) No standing VOC liquid is verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank under Paragraph C of this condition.
- E. Tanks shall be refilled as rapidly as practicable until the roof is off its legs.
- F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:
 - (1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;
 - (2) the reason for the tank floating roof landing;

- (3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:
 - (a) the floating roof was initially landed;
 - (b) all liquid was pumped from the tank to the extent practical;
 - (c) start and completion of controlled degassing, and total volumetric flow;
 - (d) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi;
 - (e) if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow;
 - (f) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and
 - (g) tank floating roof off supporting legs, floating on liquid.
 - (4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events (c) and (g) with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated November 2006 and the permit application.
- 23. Fixed-roof tanks shall not be ventilated without control, until either all standing liquid has been removed from the tank or the liquid in the tank has a VOC partial pressure less than 0.02 psia. This shall be verified and documented through one of the criteria identified in SC No. 22.C. Fixed roof tank manways may be opened without emission controls when there is standing liquid with a VOC partial pressure greater than 0.02 psi vapor as necessary to set up for degassing and cleaning. One manway may be opened to allow access to the tank to remove, or to lower the VOC partial pressure of, the remaining liquid. The emission control system shall meet the requirements of SC Nos. 22.B(1) through 22.B(5) and records maintained per SC No. 22.F(3)(c) through 22F(3)(e), and the estimated quantity in SC No. 22F(4). Low vapor pressure liquid may be added to and removed from the tank as necessary to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia.
- 24. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
 - A. Vacuum pumps and blowers shall not be operated on trucks containing or while collecting liquids with VOC partial pressure greater than 0.50 psia at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.
 - B. Equip fill line intake with a "duckbill" or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
 - C. A daily record containing the information identified below is required for each air mover truck in operation at the site each day.
 - (1) Prior to initial use, identify any liquid in the air mover truck. Record the liquid level and document that the VOC partial pressure is less than 0.50 psia at 95°F if the vacuum/blower exhaust is not routed to a control device or a controlled recovery

system. After each liquid collection, identify the liquid collected and document that the VOC partial pressure is less than 0.50 at 95°F if the vacuum/blower exhaust is not routed to a control device or a controlled recovery system.

- (2) For each liquid collection made with the vacuum/blower operating, record the duration of any periods when air may have been entrained with the liquid collection. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
 - (3) If the air mover truck vacuum/blower exhaust is controlled with a control device other than an engine or oxidizer, record the VOC exhaust concentration upon commencing each collection, at the end of each collection, and at least every hour during each collection, measured using an instrument meeting the requirements of SC No. 21.
 - (4) The volume in the air mover truck at the end of the day, or the volume unloaded, as applicable.
 - D. The permit holder shall determine the air mover truck emissions each month using the daily air mover truck records and the calculation methods utilized in the permit application. If records of the volume of liquid collected for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid collected with the greatest potential emissions. Rolling 12 month air mover truck emissions shall also be determined on a monthly basis.
 - E. If the VOC partial pressure of all the liquids collected into the truck is less than 0.10 psia, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in Paragraphs C and D of this condition do not apply.
25. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.
- A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum, except for label, logos, etc., not to exceed 15 percent of the exterior surface area. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled.
 - B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom.
 - C. These requirements do not apply to vessels storing less than 100 gallons of liquid that are closed such that the vessel does not vent to atmosphere.
 - D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled “Technical Guidance Package for Chemical Sources - Loading Operations” and standing emissions determined using: the TCEQ publication titled “Technical Guidance Package for Chemical Sources - Storage Tanks.”

- E. If the tank/vessel is used to store liquid with VOC partial pressure less than 0.10 psia, records may be limited to the days the tank is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.
26. The MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit.
27. All permanent facilities must comply with all operating requirements, limits and representations in the permits identified in Attachment D during planned startup and shutdown unless alternate limits are identified in this permit. Alternate requirements for emissions from routine emission points are identified below.
- A. Combustion units with the exception of flares, at this site are exempt from NO_x and CO operating limits identified in the special condition in this and other New Source Review (NSR) permits during planned startup and shutdown if the following criteria are satisfied.
 - (1) The maximum allowable emission rates in the permit authorizing the facility are not exceeded.
 - (2) The startup period does not exceed 8 hours in duration and the firing rate does not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown does not exceed 4 hours.
28. Control devices required by this permit for emissions from planned MSS activities are limited to those types identified in this condition. Control devices shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Each device used shall meet all the requirements identified for that type of control device.

Controlled recovery systems identified in this permit shall be directed to an operating process or to a collection system that is vented through a control device meeting the requirements of this permit condition.

- A. Carbon Adsorption System (CAS)
 - (1) The CAS shall consist of 2 carbon canisters in series with adequate carbon supply for the emission control operation.
 - (2) The CAS shall be sampled downstream of the first can and the concentration recorded at least once every hour of CAS run time to determine breakthrough of the VOC. The sampling frequency may be extended to up to 30 percent of the minimum potential saturation time for a new can of carbon. The permit holder shall maintain records including the calculations performed to determine the minimum saturation time.

The permit holder may elect to extend the carbon sampling frequency to longer periods based on previous experience with carbon control of a MSS waste gas stream. The past experience must be with the same VOC, type of facility, and MSS activity. The basis for the sampling frequency shall be recorded. If the VOC concentration on the initial sample downstream of the first carbon canister following a new polishing canister being put in place is greater than 100 ppmv above background, it shall be assumed that breakthrough occurred while that canister functioned as the final polishing canister and a permit deviation shall be recorded.

- (3) The method of VOC sampling and analysis shall be by detector meeting the requirements of SC No. 21.
- (4) Breakthrough is defined as the highest stable measured VOC concentration at or exceeding 100 ppmv above background. When the condition of breakthrough of VOC from the initial saturation canister occurs, the waste gas flow shall be switched to the second canister and a fresh canister shall be placed as the new final polishing canister within four hours.
- (5) Records of CAS monitoring shall include the following:
 - (a) Sample time and date.
 - (b) Monitoring results (ppmv).
 - (c) Canister replacement log.
- (6) Single canister systems are allowed if the time the carbon canister is in service is limited to no more than 30 percent of the minimum potential saturation time. The permit holder shall maintain records for these systems, including the calculations performed to determine the saturation time. The time limit on carbon canister service shall be recorded and the expiration date attached to the carbon can.

B. Thermal Oxidizer

- (1) The thermal oxidizer firebox exit temperature shall be maintained at not less than 1,400°F and waste gas flows shall be limited to assure at least a 0.5 second residence time in the fire box while waste gas is being fed into the oxidizer.

The thermal oxidizer exhaust temperature shall be continuously monitored and recorded when waste gas is directed to the oxidizer. The temperature measurements shall be made at intervals of six minutes or less and recorded at that frequency.

The temperature measurement device shall be installed, calibrated, and maintained according to accepted practice or the manufacturer's specifications. The device shall have an accuracy of the greater of ± 0.75 percent of the temperature being measured expressed in degrees Celsius or $\pm 2.5^\circ\text{C}$.
- (2) As an alternative to Paragraph B(1) of this condition, alternate minimum operating temperature and residence time may be established through performance testing by demonstrating a destruction efficiency of at least 99 percent under conditions similar to those at which the control device will be operated. Stack testing must have been performed within the last 12 months. Stack VOC concentrations and flow rates shall be measured in accordance with applicable EPA Reference Methods. A copy of the test report shall be maintained with the thermal oxidizer and a summary of the testing results shall be included with the emission calculations.
- (3) As an alternative to Paragraphs B(1) and B(2) of this condition, adequate destruction of VOC may be demonstrated by an exhaust concentration no greater than 20 ppmv, as measured by a continuous VOC monitor. The VOC monitor shall be calibrated and maintained in accordance with SC No.21, except for 21C.

C. Internal Combustion Engine

- (1) The internal combustion engine shall have a VOC destruction efficiency of at least 99 percent.

- (2) The engine must have been stack tested with propane or butane to confirm the required destruction efficiency within the past 12 months. VOC shall be measured in accordance with the applicable EPA Reference Method during the stack test and the exhaust flow rate may be determined from measured fuel flow rate and measured oxygen concentration. A copy of the stack test report shall be maintained with the engine. There shall also be documentation of acceptable VOC emissions following each occurrence of engine maintenance which may reasonably be expected to increase emissions including oxygen sensor replacement and catalyst cleaning or replacement. Stain tube indicators specifically designed to measure VOC concentration shall be acceptable for this documentation, provided a hot air probe or equivalent device is used to prevent error due to high stack temperature, and three sets of concentration measurements are made and averaged. Portable VOC analyzers meeting the requirements of SC No. 21 are also acceptable for this documentation.
- (3) The engine shall be operated with an oxygen sensor-based air-to-fuel ratio (AFR) controller. Documentation for each AFR controller that the, manufacturer's, or supplier's recommended maintenance has been performed, including replacement of the oxygen sensor as necessary for oxygen sensor-based controllers shall be maintained with the engine. The oxygen sensor shall be replaced at least quarterly in the absence of a specific written recommendation.
- (4) As an alternative to Paragraphs C(1) through C(3) of this condition, adequate destruction of VOC may be demonstrated by an exhaust concentration no greater than 20 ppmv, as measured by a continuous VOC monitor. The VOC monitor shall be calibrated and maintained in accordance with SC No. 21, except for 21C.

D. Temporary Flare System

- (1) The heating value and velocity requirements in 40 CFR § 60.18 shall be satisfied during operations authorized by this permit.
- (2) The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications or equivalent.
- (3) Compliance with the heating value requirements of 40 CFR § 60.18 shall be ensured by adding supplemental fuel gas to the waste gas stream as necessary. The net heating value of the waste gas stream routed to the flare may be determined by direct measurement or engineering calculations. Records of the determination of the heating value of the waste gas routed to the flare and the amount of any supplemental fuel added to the waste gas, shall be kept.

E. A liquid scrubbing system may be used upstream of carbon adsorption. A single carbon can or a liquid scrubbing system may be used as the sole control device if the requirements below are satisfied.

- (1) The exhaust to atmosphere shall be monitored continuously and the VOC concentration recorded at least once every 15 minutes when waste gas is directed to the scrubber.
- (2) The method of VOC sampling and analysis shall be by detector meeting the requirements of No. 21.

- (3) An alarm shall be installed such that an operator is alerted when outlet VOC concentration exceeds 100 ppmv above background. The MSS activity shall be stopped as soon as possible when the VOC concentration exceeds 100 ppmv above background for more than one minute. The date and time of all alarms and the actions taken shall be recorded.
 - F. Closed Loop Refrigerated Vapor Recovery System.
 - (1) The vapor recovery system shall be installed on the facility to be degassed using good engineering practice to ensure air contaminants are flushed from the facility through the refrigerated vapor condensers and back to the facility being degassed. The vapor recovery system and facility being degassed shall be enclosed except as necessary to ensure structural integrity (such as roof vents on a floating roof tank).
 - (2) VOC concentration in vapor being circulated by the system shall be sampled and recorded at least once every 4 hours at the inlet of the condenser unit with an instrument meeting the requirements of SC No. 21.
 - (3) The quantity of liquid recovered from the tank vapors and the tank pressure shall be monitored and recorded each hour. The liquid recovered shall increase with each reading and the tank pressure shall not exceed one inch water pressure while the system is operating.
29. Planned MSS activities must be conducted in a manner consistent with good practice for minimizing emissions, including the use of air pollution control equipment, practices, and processes. All reasonable and practical efforts to comply with SC Nos. 1, and 19 through 28 must be used when conducting the planned MSS activity, until the commission determines that the efforts are unreasonable or impractical, or that the activity is an unplanned MSS activity.

Permits by Rule (PBRs)

30. The following sources and/or activities are authorized under a PBR. This list is not intended to be all-inclusive and can be altered without modifications to this permit.

Authorization	Source or Activity
PBR No. 102082	Annual 2011 notification of uses of PBR 106.261.

Incorporated Consent Decree Requirements

31. The following Special Conditions incorporating Consent Decree requirements applicable to Covered Flares apply to the existing flare, HP (also known as Flare or HPPE Flare) (EPN: 701), and Covered Flares installed after these Special Conditions are included in the permit.

Terms used in the following conditions are as defined in the Incorporated Consent Decree Definitions provided in Appendix 1.1 of Attachment E.

32. Except for Newly Installed Covered Flares or Portable Flares, the permit holder shall install and commence operation of the instrumentation, controls, and monitoring systems set forth in the Consent Decree requirements incorporated into this Permit at each Covered Flare, as specified for Steam-Assisted Flares and Air-Assisted Flares.

33. Except as provided below for Portable Flares, and no later than the date that any Newly Installed Covered Flare or Portable Flare is In Operation and Capable of Receiving Waste, Supplemental, and/or Sweep Gas at a Covered Facility, the permit holder shall complete installation and commence operation of the instrumentation, controls, and monitoring systems. The permit holder shall operate the instrumentation, controls, and monitoring systems for each Newly Installed Covered Flare and Portable Flare in accordance with the Consent Decree requirements incorporated into this Permit.

The following conditions apply to Portable Flares:

- A. For the purposes of this condition, a "planned" outage means an outage of a Covered Flare that is scheduled 30 Days or more in advance of the outage. An "unplanned" outage is an outage of a Covered Flare that either is scheduled less than 30 Days in advance or is unscheduled.
 - B. For any planned or unplanned outage of a Covered Flare that the permit holder knows or reasonably anticipates will result in 504 hours or less of downtime on a 1,095-Day rolling sum period, rolled daily, the permit holder must make good faith efforts to ensure that the Portable Flare that replaces the Covered Flare complies with all of the Consent Decree requirements incorporated into this Permit, that are applicable to the Covered Flare that the Portable Flare replaces.
 - C. Outages lasting more than 504 hours
 - (1) For any planned outage of a Covered Flare that the permit holder knows or reasonably can anticipate will last more than 504 hours on a 1,095-Day rolling sum period, rolled daily, the permit holder must ensure that the Portable Flare complies with all of the Consent Decree requirements incorporated into this permit related to the Covered Flare that it replaces as of the date that the Portable Flare is In Operation and Capable of Receiving Waste, Supplemental, and/or Sweep Gas including, but not limited to, the Net Heating Value standards in SCs 56, 57, and 58.
 - (2) For any unplanned outage of a Covered Flare that, in advance of the outage, the permit holder cannot reasonably anticipate will last longer than 504 hours, the permit holder must ensure that the Portable Flare complies with all of the Consent Decree requirements incorporated into this permit related to the Covered Flare that it replaced by no later than 30 Days after the date that the permit holder knows or reasonably should have known that the outage will last more than 504 hours, including, but not limited to, the Net Heating Value Standards in SCs 56, 57, and 58.
 - (3) The permit holder shall keep records sufficient to document compliance with the requirements of this condition any time a Portable Flare is used.
34. The permit holder shall install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the volumetric flow rate of Vent Gas in the header or headers feeding the Covered Flare. This system must also be able to continuously analyze pressure and temperature at each point of Vent Gas flow measurement. Different flow monitoring methods may be used to measure different gaseous streams that make up the Vent Gas provided that the flow rates of all gas streams that contribute to the Vent Gas are determined. Flow must be calculated in standard cubic feet per minute (scfm) and pounds per hour.

- A. Each flow rate monitoring system must be able to correct for the temperature and pressure of the system and output parameters in Standard Conditions.
 - B. In lieu of a monitoring system that directly measures volumetric flow rate, one of the following options may be utilized for monitoring any gas stream:
 - (1) Mass flow monitors may be used for determining the volumetric flow rate of Vent Gas, provided the molecular weight of such Vent Gas is determined using compositional analysis data collected using a monitoring system capable of continuously measuring (i.e., at least once every 15 minutes), calculating, and recording the individual component concentrations present in the Vent Gas, and provided that the mass flow rates are converted to volumetric flow rates pursuant to the methodology in Appendix 1.2 Step 2 of Attachment E.
 - (2) Continuous pressure/temperature monitoring system(s) and appropriate engineering calculations may be used in lieu of a continuous volumetric flow monitoring system provided the molecular weight of the gas is known and the permit holder complies with methodology in Appendix 1.2 Step 2 of Attachment E for calculating volumetric flow rates. For Vent Gas, molecular weight must be determined using compositional analysis data collected using a monitoring system capable of continuously measuring (i.e., at least once every 15 minutes), calculating, and recording the individual component concentrations present in the Vent Gas.
35. The permit holder shall install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the volumetric flow rate of Assist Steam used with each Covered Steam-Assisted Flare. This system must also be able to continuously analyze the pressure and temperature of Assist Steam at a representative point of steam flow measurement. Flow must be calculated in scfm and pounds per hour.
- A. The flow rate monitoring system must be able to correct for the temperature and pressure of the system and output parameters in Standard Conditions.
 - B. In lieu of a monitoring system that directly measures volumetric flow rate, mass flow monitors may be used for determining the volumetric flow rate of Assist Steam provided the mass flow rates are converted to volumetric flow rates pursuant to the methodology in Appendix 1.2 Step 2 of Attachment E.
36. The permit holder shall install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the volumetric flow rate of Assist Air used with each Covered Air-Assisted Flare. If premix assist air and Perimeter Assist Air are both used, install, operate, calibrate, and maintain a monitoring system capable of separately continuously measuring, calculating, and recording the volumetric flow rate of premix assist air and Perimeter Assist Air used with that Covered Flare. Continuously monitoring fan speed or power and using fan curves is an acceptable method for continuously monitoring Assist Air flow rates. Flow must be calculated in scfm and pounds per hour.
- A. The flow rate monitoring system must be able to correct for the temperature and pressure of the system and output parameters in Standard Conditions.
 - B. In lieu of a monitoring system that directly measures volumetric flow rate, mass flow monitors may be used for determining the volumetric flow rate of Assist Air provided the mass flow

rates are converted to volumetric flow rates pursuant to the methodology in Appendix 1.2 Step 2 of Attachment E.

37. The permit holder shall install and operate equipment, including, as necessary, main and trim control valves and piping which enables the control of Assist Steam flow to each Covered Flare in a sufficient manner to ensure compliance with the Consent Decree requirements included in this permit.
38. The permit holder shall determine the concentration of individual components in the Vent Gas or directly monitor the Net Heating Value (NHV_{vg}) using one of the two methods below:
 - A. Install, operate, calibrate, and maintain a monitoring system capable of continuously measuring (at least once every 15 minutes), calculating, and recording the individual component concentrations present in the Vent Gas. Measure no less than once every 15 minutes and record that value.
 - B. Install, operate, calibrate, and maintain a calorimeter capable of continuously measuring (at least once every 15 minutes), calculating, and recording the NHV_{vg} at Standard Conditions. If this method is chosen, the permit holder may install, operate, calibrate, and maintain a monitoring system capable of continuously measuring, calculating, and recording the hydrogen concentration in the Vent Gas. The sample extraction point of the calorimeter may be located upstream of the introduction of Supplemental Gas or Sweep Gas or Purge Gas if the composition and flow rate of any such Supplemental Gas or Sweep Gas or Purge Gas is known and if this known value then is used in the calculation of the Net Heating Value of Vent Gas.
 - C. If the permit holder elects the method in SC 38.B and the Net Heating Value of the Vent Gas exceeds the upper calibrated span of the calorimeter on the Covered Flare, then use the value of the upper calibrated span of that calorimeter for calculating the NHV_{vg} at Standard Conditions until the Net Heating Value of the Vent Gas returns to within the measured calibrated span. Use of this method will not constitute instrument system downtime for the period of time that the Net Heating Value of the Vent Gas exceeds the upper calibrated span of the calorimeter. Measure continuously and record 15-minute block averages.

Direct compositional or Net Heating Value monitoring is not required for purchased ("pipeline quality") natural gas streams. The Net Heating Value of purchased natural gas streams may be determined using annual or more frequent grab sampling at any one representative location. Alternatively, the Net Heating Value of any purchased natural gas stream can be assumed to be 920 BTU/scf.

39. At permit holder's option, in order to continuously measure and calculate flow, in scfm and pounds per hour, of all Pilot Gas to a Covered Flare, the permit holder may elect to either
 - A. Install (if not already installed) an instrument, or
 - B. Use a restriction orifice and pressure measurements to continuously measure and calculate Pilot Gas flow.

The data generated by this instrument or restriction orifice may be used as part of the calculation for Net Heating Values of the Combustion Zone Gas.

40. The instrumentation and monitoring systems identified in SCs 34, 35, 36, and 38 must:
 - A. Meet or exceed all applicable minimum accuracy, calibration and quality control requirements specified in Table 13 of 40 C.F.R. Part 63, Subpart CC.
 - B. Have an associated readout (i.e., a visual display or record) or other indication of the monitored operating parameter that is readily accessible onsite for operational control or inspection.
 - C. Be capable of measuring the appropriate parameter over the range of values expected for that measurement location.
 - D. Have an associated data recording system with a resolution that is equal to or better than the required instrumentation/system accuracy.
41. The permit holder shall operate, maintain, and calibrate each instrument and monitoring system identified in the Consent Decree requirements incorporated into this permit according to a monitoring plan that contains the information listed in 40 C.F.R. § 63.671(b)(1) through (5).
42. Monitoring systems specified in SC 38.A used to continuously measure, calculate, and record the individual component concentrations present in the Vent Gas must meet the requirements of 40 C.F.R. § 63.671(e)(1) through (3).
43. For each instrumentation and monitoring system required by SCs 34, 35, 36, and 38 (or installed pursuant to SC 39), the permit holder shall comply with the out-of-control procedures described in 40 C.F.R. § 63.671(c)(1) and (2), and with the data reduction requirements specified in 40 C.F.R. § 63.671(d)(1) through (3).
44. The language in 40 C.F.R. § 63.671, Table 13 of 40 C.F.R. Part 63, Subpart CC, or in any regulatory provision cross-referenced in 40 C.F.R. § 63.671 or Table 13 of 40 C.F.R. Part 63, Subpart CC, that limits the applicability of these regulatory requirements to periods when “regulated material” (as defined in 40 C.F.R. § 63.641) is routed to a Covered Flare is not applicable for the purposes of these incorporated Consent Decree requirements. In addition, for the purposes of these incorporated Consent Decree requirements, the language in 40 C.F.R. § 63.671, Table 13 of 40 C.F.R. Part 63, Subpart CC, or in any regulatory provision cross-referenced in 40 C.F.R. § 63.671 or Table 13 of 40 C.F.R. Part 63, Subpart CC, that refers to a continuous parametric monitoring system will instead be read to refer to the instrumentation and monitoring systems required by the Consent Decree requirements incorporated into this permit.
45. The instrumentation and monitoring systems identified in the Consent Decree requirements incorporated into this permit must be able to produce and record data measurements and calculations for each parameter at the following time intervals:
 - A. Vent Gas, Assist Steam Flow Monitoring Systems, Assist Air Flow Monitoring Systems, and Pilot Gas Flow (if installed): Measure continuously and record 15-minute block averages.
 - B. Vent Gas Compositional Monitoring (if using this methodology in SC 38.A): Measure no less than once every 15 minutes and record that value.

- C. Vent Gas Net Heating Value Analyzer (if using this methodology in SC 38.B): Measure continuously and record 15-minute block averages.

Nothing in this Special Condition prohibits the permit holder from setting up process control logic that uses different averaging times from those in this Special Condition provided that the recording and averaging times in this Special Condition are available and used for determining compliance with the Consent Decree requirements incorporated into this permit.

- 46. The permit holder shall operate each of the instruments and monitoring systems required by SCs 34, 35, 36, 38, and 47 and collect data on a continuous basis when the Covered Flare associated with the instrument and/or monitoring systems is In Operation and Capable of Receiving Sweep, Supplemental, and/or Waste Gas.

This does not apply to Instrument Downtimes as defined in SC 59.

- 47. The permit holder shall install and operate a video camera that is capable of monitoring and recording, in digital format, the flame of and any Smoke Emissions from the Covered Flare. Record video at a rate of no less than 4 frames per minute.
- 48. For each Covered Flare that has a water seal, if all of the following conditions are met, then the Covered Flare is not receiving Potentially Recoverable Gas flow:
 - A. For the water seal drum associated with the respective Covered Flare, the pressure difference between the inlet pressure and the outlet pressure is less than the water seal pressure as set by the static head of water between the opening of the dip tube in the drum and the water level in the drum;
 - B. For the water seal drum associated with the respective Covered Flare, the water level in the drum is: (i) at the level of the weir or (ii) if the water level in the drum is measured, the measurement indicates that the water seal is present; and
 - C. Downstream of the seal drum, there is no flow of Supplemental Gas directed to the Covered Flare.
- 49. The following General Emission Standards are applicable to Covered Flares when that Covered Flare is in Operation.
 - A. The Covered Flare must operate at all times when emissions may be vented to it.
 - B. Smokeless design capacity must be specified.
 - C. The Covered Flare must operate with no Visible Emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when the Covered Flare is In Operation and the Vent Gas flow is less than the smokeless design capacity of the Covered Flare. The permit holder shall record and report any instances where Visible Emissions are observed for more than 5 minutes during any 2 consecutive hours as specified in 40 C.F.R. § 63.655(g)(11)(ii).
 - D. For the purposes of these incorporated Consent Decree requirements, Visible Emissions must be determined by a person trained in accordance with Section 2.3 of Method 22 or documented by a video camera.

- E. The Covered Flare must be monitored for Visible Emissions while it is In Operation, as specified below in SCs E.(1) or (2). An initial Visible Emissions demonstration must be conducted using an observation period of 2 hours using Method 22 at 40 C.F.R. Part 60, Appendix A-7. Subsequent Visible Emissions observations must be conducted using one of the two methods listed below:
 - (1) At least once per day, the permit holder shall conduct Visible Emissions observations using an observation period of 5 minutes using Method 22 at 40 C.F.R. Part 60, Appendix A-7. If Visible Emissions are seen, even if the minimum required daily visible emission monitoring has already been performed, an observation period of 5 minutes must immediately be done using Method 22 at 40 C.F.R. Part 60, Appendix A-7. If Visible Emissions are observed for more than one continuous minute during any 5-minute observation period, the observation period using Method 22 at 40 C.F.R. Part 60, Appendix A-7 must be extended to 2 hours or until 5 minutes of Visible Emissions are observed.
 - (2) A video surveillance camera may be used to continuously record (at least one frame every 15 seconds with time and date stamps) images of the Covered Flare flame, and a reasonable distance above the Covered Flare flame, at an angle suitable for Visible Emissions observations. Real-time video surveillance camera output must be provided to the control room or other continuously staffed location where the camera images may be viewed at any time.
- 50. The permit holder shall operate each Covered Flare with a pilot flame present at all times, and continuously monitored using a device (including, but not limited to, a thermocouple, ultraviolet beam sensor, or infrared sensor) capable of detecting that the pilot flame is present.
- 51. The permit holder shall comply with all applicable Subparts of 40 C.F.R. Parts 60, 61, or 63 that state how a particular Covered Flare must be monitored.
- 52. At all times, including during periods of startup, shutdown, and/or Malfunction, good air pollution control practices must be implemented to minimize emissions from each Covered Flare; provided however that the permit holder is not in violation of this requirement for any practice that the incorporated Consent Decree requirements require the permit holder to implement after June 6, 2018 for the period between June 6, 2018 and the compliance requirement, and this does not require the installation or maintaining of Flare monitoring equipment in addition to or different from the equipment specified in SCs 34, 35, 36, 38, and 47 .
- 53. The permit holder shall operate each Covered Flare with a minimum of a 98% Combustion Efficiency at all times when Waste Gas is vented to it. The permit holder shall also demonstrate continuous compliance with 98% Combustion Efficiency, and operate each Covered Flare in compliance with the NHV_{vg} , NHV_{cz} , and NHV_{dil} requirements specified in SCs 56, 57, and 58.
- 54. Provided that the appropriate monitoring systems are in place, whenever the Vent Gas flow rate is less than the smokeless design capacity of the Covered Flare, the permit holder shall operate Covered Flare in compliance with one of the following:
 - A. The actual Flare Tip Velocity (V_{tip}) must be less than 60 feet per second. V_{tip} is to be monitored using the procedures specified in Appendix 1.2 of Attachment E.
 - B. V_{tip} must be less than 400 feet per second and also less than the maximum allowed Flare Tip Velocity (V_{max}) as calculated according to Appendix 1.2 Equation 12 of Attachment E.

The permit holder shall monitor V_{tip} and gas composition and shall determine NHV_{vg} using the procedures specified in Appendix 1.2 of Attachment E. The Unobstructed Cross-Sectional Area of the Flare Tip must be calculated consistent with Appendix 1.3 of Attachment E.

55. The permit holder shall operate and maintain each Covered Flare in accordance with its design and the requirements herein.
56. Except during Instrument Downtime as defined in SC 59, the permit holder shall operate the Covered Flare with an NHV_{vg} of greater than or equal to 300 BTU/scf determined on a 15-minute block period basis, when Waste Gas is routed to the Covered Flare for at least 15 minutes. The permit holder shall monitor and calculate NHV_{vg} at each Covered Flare in accordance with Appendix 1.2 of Attachment E.

This requirement shall remain in effect until the earlier of:

- A. Termination of Consent Decree, Civil Action No. 4:17-cv-3302; or
- B. The requirements in 40 C.F.R. §§ 60.18(c)(3)(ii) and 63.11(b)(6)(ii) related to the NHV_{vg} are modified.
57. Except during Instrument Downtime as defined in SC 59, any time a Covered Flare is in operation, the permit holder shall operate that Flare so as to maintain the NHV_{cz} at or above 270 BTU/scf determined on a 15-minute block period basis, when Waste Gas is routed to the Covered Flare for at least 15 minutes. The permit holder shall monitor and calculate NHV_{cz} at each Covered Flare in accordance with Appendix 1.2 of Attachment E.
58. While a Covered Flare that is actively receiving Perimeter Assist Air is In Operation, the permit holder shall maintain the net heating value dilution parameter (NHV_{dil}) at or above 22 BTU/square foot determined on a 15-minute block period basis. The permit holder shall monitor and calculate NHV_{dil} at each Covered Flare that is actively receiving Perimeter Assist Air in accordance with Appendix 1.2 of Attachment E.
59. If one or more of the following conditions (collectively referred to as "Instrument Downtime") is present and renders the Covered Flare incapable of operating in accordance with the applicable NHV standards in SCs 56, 577, and 58, the Covered Flare must be operated in accordance with good air pollution control practices so as to minimize emissions from and ensure good Combustion Efficiency at that Flare:
- A. Malfunction of an instrument, for an instrument needed to meet the requirement(s);
- B. Repairs following instrument Malfunction, for an instrument needed to meet the requirement(s);
- C. Scheduled maintenance of an instrument in accordance with the manufacturer's recommended schedule, for an instrument needed to meet the requirement(s); and/or
- D. Quality Assurance/Quality Control activities on an instrument needed to meet the requirement(s).

The calculation of Instrument Downtime must be made in accordance with 40 C.F.R. § 60.13(h)(2). In no event shall Instrument Downtime exceed 5% of the time in a calendar quarter that the Covered Flare affected by the Instrument Downtime is In Operation. For purposes of calculating the 5% of Instrument Downtime allowed, the time used for NHV analyzer or gas chromatograph

calibration and validation activities may be excluded. This is not intended to prevent asserting Force Majeure as the cause of any period of Instrument Downtime. "Force Majeure" is defined as any event beyond the control of the permit holder, of any entity controlled by the permit holder, or of the permit holder's contractors, which delays or prevents the performance of any obligation herein, despite the permit holder's best efforts to fulfill the obligation. The requirement that the permit holder exercises "best efforts to fulfill the obligation" includes using best efforts to anticipate any potential Force Majeure and best efforts to address the effects of any potential Force Majeure: (a) as it is occurring and (b) following the potential Force Majeure, such that the delay and any adverse effects of the delay are minimized. "Force Majeure" does not include the permit holder's financial inability to perform any obligation herein.

60. For each Covered Flare, calculate and record each of the following parameters:
- A. Volumetric flow rates of all gas streams that contribute to the Vent Gas volumetric flow rate (in scfm), measured continuously and recorded in 15-minute block averages, and in accordance with any calculation requirements of SCs 34, 35, and 36 and Appendix 1.2 Step 2 of Attachment E.
 - B. Assist Steam volumetric flow rate (in scfm), measured continuously and recorded in 15-minute block averages in accordance with calculation requirements for Appendix 1.2 Step 2 of Attachment E.
 - C. Assist Air volumetric flow rate (in scfm), measured continuously and recorded in 15-minute block averages in accordance with calculation requirements for Appendix 1.2 Step 2 of Attachment E.
 - D. NHV_{vg} (in BTU/scf) in 15-minute block averages in accordance with calculation requirements of Appendix 1.2 Step 1 of Attachment E.
 - E. NHV_{cz} (in BTU/scf) in 15-minute block averages in accordance with calculation requirements of Appendix 1.2 Step 3 of Attachment E.

The permit holder shall record the duration of all periods of Instrument Downtime for each Covered Flare that exceeds 5% of the time in a calendar quarter that the Covered Flare is In Operation. The permit holder shall record which instrument(s) experienced the downtime, which Covered Flare was affected by the downtime, an explanation of the cause(s) of the deviation, and a description of the corrective action(s) taken.

For any deviation from the Standards for Net Heating Values, 98% Combustion Efficiency Standard requirements, or the Instrument Downtime Standard requirements at the Covered Flare, the permit holder shall record the duration of the deviation, an explanation of the cause(s) of the deviation, and a description of the corrective action(s) taken.

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TABLE 1

Permit Numbers 6860 and PSDTX1464

Exempt Relief Valves List

PSV 115	PSV 215
PSV 117	PSV 217
PSV 118	PSV 218
PSV 119	PSV 219
PSV 137	PSV 237
PSV 141	PSV 241
PSV 146	PSV 246
PSV 147	PSV 247
PSV 148	PSV 248
PSV 153	PSV 253
PSV 158	PSV 258
PSV 159	PSV 259
PSV 160	PSV 260
PSV 161	PSV 262
PSV 162	PSV 230
PSV 130	PSV 231
PSV 131	PSV 232
PSV 132	PSV 233
PSV 133	PSV 234
PSV 134	PSV 235
PSV 135	PSV 236
PSV 136	PSV 238

PSV 138	PSV 239
PSV 139	PSV 240
PSV 140	PSV 267
PSV 167	

Dated July 31, 2020

Attachment A

Permit Numbers 6860 and PSDTX1464

Inherently Low Emitting Activities

	Emissions				
Activity	VOC	NO _x	CO	PM ₁₀	SO ₂
Aerosol Cans	X				
Baghouse/Filter Maintenance/Entry				X	
Cyclone Inspection/Maintenance				X	
Fiber Drum Crushing				X	
Jet Cleaner	X	X	X	X	X
Lap Tables	X				
Plant Oil Changes	X				
Inspection, repair, replacement, adjustment, testing, proving and calibration of instrumentation/analytical equipment	X				
Inspection, repair, replacement, cleaning of miscellaneous equipment (e.g., sight glasses, filters, screens, lube oil systems)	X				
Maintenance on water treatment systems (cooling, boiler, potable)	X				
Management of sludge from pits, ponds, sumps and water conveyances	X				
Use of soap and other aqueous based cleaners	X				

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Attachment B

Permit Numbers 6860 and PSDTX1464

Routine Maintenance Activities

Planned maintenance, startup, and shutdown activities where the isolated system volume is less than 500 cubic feet. These include activities such as:

Pump repair/replacement/cleaning/inspection

Compressor repair/replacement/cleaning/inspection

Heat exchanger repair/replacement/cleaning/inspection

Vessel repair/replacement/cleaning/inspection

Furnace repair/replacement/cleaning/inspection

Boiler repair/replacement/cleaning/inspection

Date: July 31, 2020

Attachment C

Permit Numbers 6860 and PSDTX1464

MSS Activity Summary

Facilities or Source Category	Description	Emissions Activity	EPN
High Pressure Polyethylene Process Lines	Degas process line to 10,000 ppmv of VOC	Vapors routed to Flare or Portable Control Device (per SC 28)	701
High Pressure Reactor Blowdowns and nitrogen purging of lines between product changes	Blowdown and Nitrogen Purges to Flare System	Vapors routed to the Flare System	701
Ethylene Recovery Unit (ERU) Maintenance	ERU Outages	Vapors routed to the Flare System	701
Low Pressure Polyethylene Process Lines	Degas process line to 10,000 ppmv of VOC	Vapors routed to Flare or Portable Control Device (per SC 28)	721
Catalyst Manufacturing Facilities	Degas process line to 10,000 ppmv of VOC	Vapors routed to Flare or Portable Control Device (per SC 28)	721
High Pressure Polyethylene Process Lines, Low Pressure Polyethylene Process Lines and Catalyst Manufacturing Facilities	Vacuum residual liquid from process line equipment using Air Mover Truck	Emissions to atmosphere	MSS
High Pressure Polyethylene Process Lines, Low Pressure Polyethylene Process Lines and Catalyst Manufacturing Facilities	Open process line equipment for planned maintenance after degassing to 10,000 ppmv of VOC or vapor pressure of VOC is 0.5 psia or less	Emissions to atmosphere	MSS
Floating Roof Storage Tanks	Removal of residual liquid from storage tank	Residual liquid routed to truck or railcar. Vapors from truck or railcar routed to flare or Portable Control Device (per SC 28)	721
Floating Roof Storage Tanks	Degas tank to 10,000 ppmv of VOC	Vapors routed through truck or railcar to flare or Portable Control Device (per SC 28)	721

Facilities or Source Category	Description	Emissions Activity	EPN
Floating Roof Storage Tanks	Open storage tank after degassing to 10,000 ppmv	Emissions to atmosphere	MSS
Pressurized Tanks	Removal of residual liquid from tank	Residual liquid routed to truck or railcar. Vapors from truck or railcar routed to flare or Portable Control Device (per SC 28)	701
Pressurized Tanks	Degas tank to 10,000 ppmv of VOC	Vapors routed through truck or railcar to flare	701
Pressurized Tanks	Open storage tank after degassing to 10,000 ppmv	Emissions to atmosphere	MSS
Fixed Roofs Tank	Transfer liquid from tanks into tank truck, railcar or equivalent temporary container or vessel	Emissions to atmosphere	MSS
Fixed Roofs Tank	Degas storage tank with VOC vapor pressure of 0.5 psia or greater to 10,000 ppmv of VOC	Vapors routed to flare or Portable Control Device (per SC 28)	701
Fixed Roof Tanks	Open tank with VOC vapor pressure less than 0.05 psia or open storage tank with VOC vapor pressure of 0.5 psia or greater after degassing to 10,000 ppmv	Emissions to atmosphere	MSS
All storage tanks	Tank cleaning, inspection, and maintenance	Emissions to atmosphere	MSS
All storage tanks	Refill clean tank	Emissions to atmosphere	MSS
All process units and tanks	Store liquid in tank truck, railcar or equivalent temporary container or vessels (e.g., Frac Tanks)	Emissions to atmosphere	MSS
See Attachment A	Miscellaneous low emitting activities	Emissions to atmosphere	MSS

Facilities or Source Category	Description	Emissions Activity	EPN
See Attachment B	Routine maintenance activities	Emissions to atmosphere	MSS

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Attachment D

Permit Numbers 6860 and PSDTX1464

Permit Emission Points by Source Category

This permit authorizes emissions from the following temporary facilities used to support planned maintenance, startup, and shutdown (MSS) activities at permanent site facilities: tank trucks, railcars, and air mover trucks. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in this Attachment, and (c) does not operate as a replacement for an existing authorized facility.

This permit authorizes MSS emissions from the permanent site facilities identified below. The headings for each group of facilities (Process Units, Tanks, etc) are used in the MSS Activity Summary (Attachment B) to identify all facilities in the respective group.

HIGH-PRESSURE POLYETHYLENE PROCESS LINES		
FIN	Description	New Source Review Authorization
100	High Pressure Polyethylene Line No. 1	Permit No. 6860
200	High Pressure Polyethylene Line No. 2	Permit No. 6860
300	High Pressure Polyethylene Line No. 3	Permit No. 6860
	High Pressure Compounding Area	Permit No. 6860

LOW-PRESSURE POLYETHYLENE PROCESS LINES		
FIN	Description	New Source Review Authorization
400	Low Pressure Polyethylene Line No. 4	Permit No. 8758
500	Low Pressure Polyethylene Line No. 5	Permit No. 8758
600	Low Pressure Polyethylene Line No. 6	Permit No. 8758
	Low Pressure Finishing Area	Permit No. 8758
	Catalyst Manufacturing Facilities	Permit No. 8758

FLOATING ROOF STORAGE TANKS		
FIN	Description	New Source Review Authorization
863	Hexene Storage	Permit No. 8758

PRESSURIZED STORAGE TANKS		
FIN	Description	New Source Review Authorization
612-D646	Propylene Storage	Permit No. 6860
612-D647-1	Peroxide/OMS Storage	Permit No. 6860
612-D647-2	Peroxide/OMS Storage	Permit No. 6860
612-D652	Propionaldehyde Storage	Permit No. 6860
612-D670	Methanol Storage	Permit No. 6860
612-D4704	Butene Storage	Permit No. 6860
612-D4705	Vinyl Acetate Storage	Permit No. 6860
612-D4706	Isopentane Storage	Permit No. 6860
612-D4718	25% TEAL Storage	Permit No. 6860
612-D4723	Tetrahydrofuran Storage	Permit No. 6860
612-D4725	11% TMA/Hexane Storage	Permit No. 6860
612-D4749	Butene Storage	Permit No. 6860
612-D4752	Neat TEAL Storage	Permit No. 8758
612-D4754	TMA / Isopentane Storage	Permit No. 8758
612-D4758	Isopentane Storage	Permit No. 8758

FIXED-ROOF STORAGE TANKS		
FIN	Description	New Source Review Authorization
612-D645	Peroxide/OMS Tank	Permit No. 6860
612-D716	Diesel	Permit No. 6860
612-D716A	Diesel	Permit No. 6860
612-F102	Plunger Coolant Storage	Permit No. 6860
612-F108	Witco Oil Storage	Permit No. 6860
612-F109	Frame Oil Storage	Permit No. 6860
612-F670	OMS Storage	Permit No. 6860
612-F706	Slop Oil Storage	Permit No. 6860
612-F713	Alternate Fuels Storage	Permit No. 6860
612-F714	Alternate Fuels Storage	Permit No. 6860
612-F802	Diesel Storage	Permit No. 6860
612-F4706	Diesel Storage	Permit No. 8758
612-F5959	TNPP Storage	Permit No. 8758
612-F6640A	Mineral Oil Storage	Permit No. 8758

FIXED-ROOF STORAGE TANKS		
612-F6640B	20% Peroxide /OMS Storage	Permit No. 8758

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Attachment E

Permit Numbers 6860 and PSDTX1464

Appendix 1.1

Incorporated Consent Decree Definitions

The Definitions in Appendix 1.1 of Attachment E are only applicable to SCs 31 through 60 of this Permit.

“Assist Air” means all air that is intentionally introduced before or at a Flare tip through nozzles or other hardware conveyance for the purposes of, including, but not limited to, protecting the design of the Flare tip, promoting turbulence for mixing, or inducing air into the flame. Assist Air includes premix assist air and Perimeter Assist Air. Assist Air does not include surrounding ambient air. Flares that use Assist Air are referred to as “Air-Assisted Flares.”

“Assist Steam” means all steam that is intentionally introduced before or at a Flare tip through nozzles or other hardware conveyance for the purposes of, including, but not limited to, protecting the design of the Flare tip, promoting turbulence for mixing, or inducing air into the flame. Assist Steam includes, but is not necessarily limited to, Center Steam, lower steam, and upper steam.

“Available for Operation” means, with respect to a Compressor within a FGRS, that the Compressor is capable of commencing the recovery of Potentially Recoverable Gas as soon as practicable but not more than one hour after the Need for a Compressor to Operate arises. The period of time, not to exceed one hour, allowed by this definition for the startup of a Compressor will be included in the amount of time that a Compressor is Available for Operation.

“Capable of Receiving Sweep, Supplemental, and/or Waste Gas” means, for a Flare, that the flow of Sweep Gas, Supplemental Gas, and/or Waste Gas is not prevented from being directed to the Flare by means of an isolation device such as closed valves, blinds, or stopples.

“Combustion Efficiency” or “CE” means a Flare’s efficiency in converting the organic carbon compounds found in Combustion Zone Gas to carbon dioxide. Combustion Efficiency must be determined in accordance with Appendix 1.2 of Attachment E.

“Combustion Zone” means the area of the Flare flame where the Combustion Zone Gas combines for combustion.

“Combustion Zone Gas” means all gases and vapors found after the Flare tip. This gas includes all Vent Gas, Pilot Gas, Total Steam, and Assist Air.

“Compressor” means, with respect to a FGRS, a mechanical device designed and installed to recover gas from a flare header. Types of FGRS compressors include reciprocating compressors, centrifugal compressors, liquid ring compressors, screw compressors, and liquid jet ejectors.

“Covered Flare” or “Covered Flares” means each of the identified flares, as well as any Newly Installed Covered Flare or Portable Flare in use at a Covered Facility:

“Duplicate Spare Compressor” means, with respect to a Flare Gas Recovery System, an installed compressor, designed to be identical or functionally equivalent to the other compressor(s) of the FGRS. In order to qualify as a “Duplicate Spare Compressor,” the compressor must be functionally

interchangeable with the other FGRS compressor(s) such that the Nominal Design Capacity of the FGRS is Available for Operation while any one compressor of the FGRS is out of service.

“External Utility Loss” means a loss in the supply of electrical power or other third-party utility to a Covered Facility that is caused by actions occurring outside the boundaries of a Covered Facility, excluding utility losses due to an interruptible utility service agreement.

“Flare” means a combustion device lacking an enclosed combustion chamber that uses an uncontrolled volume of ambient air to burn gases.

“Flare Gas Recovery System” or “FGRS” means a system of one or more Compressors, piping, and associated water seal, rupture disk, or other equipment used to divert gas from a Flare and direct the gas to a fuel gas system, to a combustion device other than the Flare, or to a product, co-product, by-product, or raw material recovery system.

“Flare Tip Velocity” or “Vtip” means the velocity of gases exiting the Flare tip as defined in SC 54.

“In Operation,” with respect to a Flare, means all times that Sweep, Supplemental, or Waste Gas is or may be vented to a Flare. A Flare that is In Operation is Capable of Receiving Sweep, Supplemental, or Waste Gas unless all Sweep, Supplemental, and Waste Gas flow is prevented by means of an isolation device such as closed valves, blinds, and/or stopples

“Lower Heating Value” or “LHV” means the theoretical total quantity of heat liberated by the complete combustion of a unit volume or weight of a fuel initially at 25 degrees Centigrade and 760 mmHg, assuming that the produced water is vaporized and all combustion products remain at, or are returned to, 25 degrees Centigrade; however, the standard for determining the volume corresponding to one mole is 20 degrees Centigrade

“Malfunction” means, as specified in 40 C.F.R. § 60.2, any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not Malfunctions.

“Monitoring System Malfunction” means any sudden, infrequent, and not reasonably preventable failure of instrumentation or a monitoring system to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not Monitoring System Malfunctions.

“Net Heating Value” means Lower Heating Value.

“Net Heating Value of Combustion Zone Gas” or “NHV_{cz}” means the Lower Heating Value, in BTU/scf, of the Combustion Zone Gas in a Flare. NHV_{cz} must be calculated in accordance with Step 3 of Appendix 1.2 of Attachment E.

“Net Heating Value of Vent Gas” or “NHV_{vg}” means the Lower Heating Value, in BTU/scf, of the Vent Gas directed to a Flare. NHV_{vg} must be calculated in accordance with Step 1 of Appendix 1.2 of Attachment E.

“Newly Installed Covered Flare(s)” means any Flare that is permanently installed, receives Waste Gas that has been redirected to it from an existing Covered Flare (existing as of June 6, 2018), and commences operation at a Covered Facility after June 6, 2018.

“Perimeter Assist Air” means the portion of Assist Air introduced at the perimeter of the Flare tip or above the Flare tip. Perimeter Assist Air includes air intentionally entrained in lower and upper steam. Perimeter Assist Air includes all Assist Air except pre-mix assist air.

“Pilot Gas” means gas introduced into a Flare tip that provides a flame to ignite the Vent Gas.

“Portable Flare” means a Flare that is not permanently installed and that receives Waste Gas that has been redirected to it from a Covered Flare during an outage.

“Potentially Recoverable Gas” means the Sweep Gas, Supplemental Gas, and/or Waste Gas (including hydrogen, nitrogen, oxygen, carbon dioxide, carbon monoxide, and/or water) directed to a Covered Flare’s or group of Covered Flares’ FGRS, except that Regeneration Waste Gas Streams are not included in the definition of “Potentially Recoverable Gas.”

“Purge Gas” means the gas introduced between a Flare header’s water seal and the Flare tip to prevent oxygen infiltration (backflow) into the Flare tip. For a Flare with no water seal, the function of Purge Gas is performed by Sweep Gas, and therefore, by definition, such a Flare has no Purge Gas.

“Regeneration Waste Gas Streams” means Waste Gas streams produced during the regeneration of the dryers, reactors, and other vessels. Regeneration Waste Gas Streams are high in nitrogen (typically approximately 90%) and have very low heating value (typically approximately 100 btu/scf), thus they are not a useful fuel.

“Smoke Emissions” shall have the definition set forth in Section 3.5 of Method 22 of 40 C.F.R. Part 60, Appendix A. For purposes of the incorporated Consent Decree requirements, Smoke Emissions may be either documented by a video camera or determined by an observer knowledgeable with respect to the general procedures for determining the presence of Smoke Emissions per Method 22.

“Standard Conditions” means a temperature of 68 degrees Fahrenheit and a pressure of 1 atmosphere.

“Steam-Assisted Flare” means a Flare that uses steam piped to a Flare tip to assist in combustion

“Supplemental Gas” means all gas introduced to a Flare in order to improve the combustible characteristics of the Combustion Zone Gas

“Sweep Gas” means:

(1) For a Flare with an FGRS: Gas intentionally introduced into a Flare header system to prevent oxygen buildup in the Flare header. Sweep Gas in these Flares is introduced prior to and recovered by the FGRS; and

(2) For a Flare without an FGRS: Gas intentionally introduced into a Flare header system to maintain a constant flow of gas through the flare header and out the Flare tip in order to prevent oxygen building in the Flare header and to prevent infiltration (backflow) into the Flare tip.

“Total Steam” means the total of all steam that is supplied to a Flare and includes, but is not limited to, lower steam, center steam, and upper steam.

“Unobstructed Cross Sectional Area of the Flare Tip” or “Atip-unob” means the open, unobstructed area of a Flare tip through which Vent Gas and Center Steam pass. Diagrams of four common

Flare types are set forth in Appendix 1.3 of Attachment E together with the equations for calculating the *Atip-unob* of these four types.

“Vent Gas” means all gas found just before the Flare tip. This gas includes all Waste Gas, that portion of Sweep Gas that is not recovered, Purge Gas, and Supplemental Gas, but does not include Pilot Gas, Total Steam, or Assist Air.

“Visible Emissions” means five minutes or more of Smoke Emissions during any two consecutive hours.

“Waste Gas” means the mixture of all gases from facility operations that is directed to a Flare for the purpose of disposing of the gas. “Waste Gas” does not include gas introduced to a Flare exclusively to make it operate safely and as intended; therefore, “Waste Gas” does not include Pilot Gas, Total Steam, Assist Air, or the minimum amount of Sweep Gas and Purge Gas that is necessary to perform the functions of Sweep Gas and Purge Gas. “Waste Gas” also does not include the minimum amount of gas introduced to a Flare to comply with regulatory or enforceable permit requirements regarding the combustible characteristics of Combustion Zone Gas; therefore, “Waste Gas” does not include Supplemental Gas. Depending upon the instrumentation that monitors Waste Gas, certain compounds (hydrogen, nitrogen, oxygen, carbon dioxide, carbon monoxide, and/or water (steam)) that are directed to a Flare for the purpose of disposing of these compounds may be excluded from calculations relating to Waste Gas flow.

Appendix 1.2

Calculating CE, NHV_{cz} , NHV_{dil} , and (V_{tip})

All abbreviations, constants, and variables are defined in the Key at the end of this Appendix. Appendix 1.2 of Attachment E is only applicable to Special Conditions 31 through 60 of this Permit.

Combustion Efficiency Equation:

$$CE = [CO_2]/([CO_2] + [CO] + [OC])$$

where:

$[CO_2]$ = Concentration in volume percent or ppm-meters of carbon dioxide in the combusted gas immediately above the Combustion Zone

$[CO]$ = Concentration in volume percent or ppm-meters of carbon monoxide in the combusted gas immediately above the Combustion Zone

$[OC]$ = Concentration in volume percent or ppm-meters of the sum of all organic carbon compounds in the combusted gas immediately above the Combustion Zone, counting each carbon molecule separately where the concentration of each individual compound is multiplied by the number of carbon atoms it contains before summing (e.g., 0.1 volume percent ethane shall count as 0.2 percent OC because ethane has two carbon atoms)

For purposes of using the CE equation, the unit of measurement for CO_2 , CO, and OC must be the same; that is, if "volume percent" is used for one compound, it must be used for all compounds. "Volume percent" cannot be used for one or more compounds and "ppm-meters" for the remainder.

Step 1: Determine the Net Heating Value of the Vent Gas (NHV_{vg})

The permit holder shall determine the Net Heating Value of the Vent Gas (NHV_{vg}) based on composition monitoring data on a 15-minute block average basis according to the following requirements. If the permit holder monitors separate gas streams that combine to comprise the total Vent Gas flow to a Covered Flare, the 15-minute block average Net Heating Value shall be determined separately for each measurement location according to the following requirements and a flow-weighted average of the gas stream Net Heating Values shall be used to determine the 15-minute block average Net Heating Value of the cumulative Vent Gas. The NHV_{vg} 15-minute block averages shall be calculated for set 15-minute time periods starting at 12 midnight to 12:15 AM, 12:15 AM to 12:30 AM and so on, concluding at 11:45 PM to midnight.

Step 1a: Equation or Output to be Used to Determine NHV_{vg} at a Measurement Location

For any gas stream for which the permit holder complies by collecting compositional analysis data: Equation 1 shall be used to determine the NHV_{vg} of a specific sample by summing the Net Heating Value for each individual component by individual component volume fractions. Individual component Net Heating Values are listed in Table 1 of this Appendix.

$$NHV_{vg} = \sum_{i=1}^n (x_i \cdot NHV_i)$$

Equation 1

For any gas stream for which the permit holder complies by collecting direct Net Heating Value monitoring data but for which a Hydrogen Concentration Monitor is not used: Use the direct output (measured value) of the monitoring system(s) (in BTU/scf) to determine the NHV_{vg} for the sample.

For any gas stream for which the permit holder complies by collecting direct Net Heating Value monitoring data and for which a Hydrogen Concentration Monitor is also used: Equation 2 shall be used to determine the NHV_{vg} for each sample measured via the Net Heating Value monitoring system. Where hydrogen concentration data is collected, Equation 2 performs a net correction for the measured heating value of hydrogen since the theoretical Net Heating Value for hydrogen is 274 Btu/scf, but for the purposes of this appendix calculation methodology, a Net Heating Value of 1,212 Btu/scf may be used ($1,212 - 274 = 938$ BTU/scf).

$$NHV_{vg} = NHV_{measured} + 938x_{H_2}$$

Equation 2

Step 1b: Calculation Method to be Used in Applying Equation/Output to Determine NHV_{vg}

For any Covered Flare for which the permit holder complies by using a continuous monitoring system: The permit holder may elect to determine the 15-minute block average NHV_{vg} using either the Feed-Forward Calculation Method or the Direct Calculation Method (both described below). The permit holder need not elect to use the same methodology at all Covered Flares with a continuous monitoring system; however, for each such Covered Flare, the permit holder must elect one calculation method that will apply at all times, and use that method for all continuously monitored flare vent streams associated with that Covered Flare. If the permit holder intends to change the calculation method that applies to a Covered Flare, the permit holder must notify the EPA 30 days in advance of such a change.

Feed-Forward Calculation Method. When calculating NHV_{vg} for a specific 15-minute block:

1. Use the results from the first sample collected during an event (for periodic Vent Gas flow events) for the first 15-minute block associated with that event.

2. If the results from the first sample collected during an event (for periodic Vent Gas flow events) are not available until after the second 15-minute block starts, use the results from the first sample collected during an event for the second 15- minute block associated with that event.
3. For all other cases, use the results that are available from the most recent sample prior to the 15-minute block period for that 15-minute block period for all Vent Gas streams. For the purpose of this requirement, use the time that the results become available rather than the time the sample was collected. For example, if a sample is collected at 12:25 AM and the analysis is completed at 12:38 AM, the results are available at 12:38 AM and these results would be used to determine compliance during the 15-minute block period from 12:45 AM to 1:00 AM.

Direct Calculation Method. When calculating NHV_{vg} for a specific 15-minute block:

1. If the results from the first sample collected during an event (for periodic Vent Gas flow events) are not available until after the second 15-minute block starts, use the results from the first sample collected during an event for the first 15- minute block associated with that event.
2. For all other cases, use the arithmetic average of all NHV_{vg} measurement data results that become available during a 15-minute block to calculate the 15-minute block average for that period. For the purpose of this requirement, use the time that the results become available rather than the time the sample was collected. For example, if a sample is collected at 12:25 AM and the analysis is completed at 12:38 AM, the results are available at 12:38 AM and these results would be used to determine compliance during the 15-minute block period from 12:30 AM to 12:45 AM.

Step 2: Determine Volumetric Flow Rates of Gas Streams

The permit holder shall determine the volumetric flow rate in standard cubic feet (scf) of Vent Gas, along with the volumetric flow rates (in scf) of any Supplemental Gas, Assist Steam, and Assist Air, over a 15-minute block average basis. The 15-minute block average volumetric flow rates shall be calculated for set 15-minute time periods starting at 12 midnight to 12:15 AM, 12:15 AM to 12:30 AM and so on, concluding at 11:45 PM to midnight.

For any gas streams for which the permit holder complies by using a monitoring system that directly records volumetric flow rate: Use the direct output (measured value) of the monitoring system(s) (in scf), as corrected for the temperature and pressure of the system to standard conditions (i.e., a temperature of 20 °C (68 °F) and a pressure of 1 atmosphere) to then calculate the average volumetric flow rate of that gas stream for the 15- minute block period.

For Vent Gas, Assist Steam, or Assist Air gas streams for which the permit holder complies by using a mass flow monitor to determine volumetric flow rate: Equation 3 shall be used to determine the volumetric flow rate of Vent Gas, Assist Air, or Assist Steam by converting mass flow rate to volumetric flow at standard conditions (i.e., a temperature of 20 °C (68 °F) and a pressure of 1 atmosphere). Equation 3 uses the molecular weight of the gas stream as an input to the equation; therefore, if the permit holder elects to use a mass flow monitor to determine volumetric flow rate of Vent Gas, the permit holder must collect compositional analysis data for such Vent Gas. For Assist Steam, use a molecular weight of 18 pounds per pound-mole. For Assist Air, use a molecular weight of 29 pounds per pound-mole. The converted volumetric flow rates at standard conditions from Equation 3 shall then be used to calculate the average volumetric flow rate of that gas stream for the 15-minute block period.

$$Q_{vol} = \frac{Q_{mass} * 385.3}{MW_t}$$

Equation 3

For gas streams for which the molecular weight of the gas is known and for which the permit holder complies by using continuous pressure/temperature monitoring system(s): Use appropriate engineering calculations to determine the average volumetric flow rate of that gas stream for the 15-minute block period. For Assist Steam, use a molecular weight of 18 pounds per pound-mole. For Assist Air, use a molecular weight of 29 pounds per pound-mole. For Vent Gas, molecular weight must be determined by collecting compositional analysis data for such Vent Gas.

Step 3: Calculate the Net Heating Value of the Combustion Zone Gas (NHV_{cz})

For any Covered Flare at which: 1) the Feed-Forward Calculation Method is used; 2) gas composition or Net Heating Value monitoring is performed in a location representative of the cumulative Vent Gas stream; and 3) Supplemental Gas flow additions to the Flare are directly monitored: Equation 4 shall be used to determine the 15-minute block average NHV_{cz} based on the 15-minute block average Vent Gas, Pilot Gas, Supplemental Gas, and assist gas flow rates.

$$NHV_{cz} = \frac{(Q_{vg} - Q_{NG2} + Q_{NG1}) * NHV_{vg} + (Q_{NG2} - Q_{NG1}) * NHV_{NG} + (Q_{pg} * NHV_{pg})}{Q_{vg} + Q_s + Q_{pg}}$$

Equation 4

For the first 15-minute block period of an event, Q_{NG1} shall use the volumetric flow value for the current 15-minute block period (i.e. $Q_{NG1} = Q_{NG2}$). NHV_{NG} shall be determined using one of the following methods: 1) direct compositional or Net Heating Value monitoring of the natural gas stream in accordance with Step 1; or 2) for purchased ("pipeline quality") natural gas streams, the permit holder may elect to either: a) use annual or more frequent grab sampling at any one representative location; or b) assume a Net Heating Value of 920 BTU/scf.

For all other Covered Flares: Equation 5 shall be used to determine the 15-minute block average NHV_{cz} based on the 15-minute block average Vent Gas and assist gas flow rates. For periods when there is no Assist Steam flow or Assist Air flow, $NHV_{cz} = NHV_{vg}$.

$$NHV_{cz} = \frac{(Q_{vg} * NHV_{vg}) + (Q_{pg} * NHV_{pg})}{Q_{vg} + Q_s + Q_{pg}}$$

Equation 5

Step 4: Calculate the Net Heating Value Dilution Parameter (NHV_{dil})

For any Covered Flare at which: 1) the Feed-Forward Calculation Method is used; 2) gas composition or Net Heating Value monitoring is performed in a location representative of the cumulative Vent Gas stream; and 3) Supplemental Gas flow additions to the Flare are directly monitored: Equation 6 shall be used to determine the 15-minute block average NHV_{dil} only during periods when Perimeter Assist Air is used. For 15-minute block periods when there is no cumulative volumetric flow of Perimeter Assist Air, the 15-minute block average NHV_{dil} parameter does not need to be calculated.

$$NHV_{dil} = \frac{[(Q_{vg} - Q_{NG2} + Q_{NG1}) * NHV_{vg} + (Q_{NG2} - Q_{NG1}) * NHV_{NG} + (Q_{pg} * NHV_{pg})] * Diam}{(Q_{vg} + Q_s + Q_{pg} + Q_{a,perimeter})} \quad \text{Equation 6}$$

For the first 15-minute block period of an event, Q_{NG1} shall use the volumetric flow value for the current 15-minute block period (i.e. $Q_{NG1} = Q_{NG2}$). NHV_{NG} shall be determined using one of the following methods: 1) direct compositional or Net Heating Value monitoring of the natural gas stream in accordance with Step 1; or 2) for purchased ("pipeline quality") natural gas streams, the permit holder may elect to either: a) use annual or more frequent grab sampling at any one representative location; or b) assume a Net Heating Value of 920 BTU/scf.

For all other Covered Flares: Equation 7 shall be used to determine the 15-minute block average NHV_{dil} based on the 15-minute block average Vent Gas and Perimeter Assist Air flow rates, only during periods when Perimeter Assist Air is used. For 15-minute block periods when there is no cumulative volumetric flow of Perimeter Assist Air, the 15-minute block average NHV_{dil} parameter does not need to be calculated.

$$NHV_{dil} = \frac{[(Q_{vg} * NHV_{vg}) + (Q_{pg} * NHV_{pg})] * Diam}{(Q_{vg} + Q_s + Q_{pg} + Q_{a,perimeter})} \quad \text{Equation 7}$$

Step 5: Ensure that during Flare operation, $NHV_{vg} \geq 300$ BTU/scf

The Flare must be operated to ensure that NHV_{vg} is equal to or above 300 BTU/scf (Equation 8 shows this relationship), as determined for:

1. Each 15-minute block period during which Waste Gas is routed to a Covered Flare for all 15-minutes (a "Complete 15-minute Block Period"), and
2. Any 15-minute block period during which Waste Gas is routed to a Covered Flare for less than all 15-minutes (a "Partial 15-Minute Block Period"), and is immediately subsequent and contiguous to a Complete 15-minute Block Period.

Partial 15-Minute Block Periods are not required to achieve a NHV_{vg} equal to or above 300 BTU/scf if they immediately precede a Complete 15-minute Block Period.

$$NHV_{vg} \geq 300 \text{ BTU/scf}$$

Equation 8

Step 6: Ensure that during Flare operation, $NHV_{cz} \geq 270 \text{ BTU/scf}$

The Flare must be operated to ensure that NHV_{cz} is equal to or above 270 BTU/scf (Equation 9 shows this relationship), as determined for:

1. Each Complete 15-minute Block Period, and
2. Any Partial 15-Minute Block Period that is immediately subsequent and contiguous to a Complete 15-minute Block Period.

Partial 15-Minute Block Periods are not required to achieve a NHV_{cz} equal to or above 270 BTU/scf if they immediately precede a Complete 15-minute Block Period.

$$NHV_{cz} \geq 270 \text{ BTU/scf}$$

Equation 9

Step 7: Ensure that during Flare operation, $NHV_{dil} \geq 22 \text{ BTU/ft}^2$

A Flare actively receiving Perimeter Assist Air must be operated to ensure that NHV_{dil} is equal to or above 22 BTU/ft² (Equation 10 shows this relationship), as determined for:

1. Each Complete 15-minute Block Period, and
2. Any Partial 15-Minute Block Period that is immediately subsequent and contiguous to a Complete 15-minute Block Period.

Partial 15-Minute Block Periods are not required to achieve a NHV_{dil} equal to or above 22 BTU/ft² if they immediately precede a Complete 15-minute Block Period.

$$NHV_{dil} \geq 22 \text{ BTU/ft}^2$$

Equation 10

Calculation Method for Determining Compliance with Vtip Operating Limits.

The permit holder shall determine Vtip on a 15-minute Block Average basis according to the following requirements:

- (a) The permit holder shall use design and engineering principles and the guidance in Appendix 1.3 to determine the Unobstructed Cross Sectional Area of the Flare Tip. The Unobstructed Cross Sectional Area of the Flare Tip is the total tip area that Vent Gas can pass through. This area does not include any stability tabs, stability rings, and upper steam or air tubes because Vent Gas does not exit through them.
- (b) The permit holder shall determine the cumulative volumetric flow of Vent Gas for each 15-minute Block Average Period using the data from the continuous flow monitoring system according to the requirements in Step 2 above.
- (c) The 15-minute Block Average Vtip shall be calculated using Equation 11.

$$V_{tip} = \frac{Q_{cum}}{Area \times 900}$$

Equation 11

- (d) If the permit holder chooses to comply with Vtip less than 400 ft/s and less than Vmax, the permit holder shall also determine the NHV_{vg} using Step 1 above and calculate Vmax using Equation 12 in order to compare Vtip to Vmax on a 15-minute Block Average basis.

$$\log_{10}(V_{max}) = \frac{NHV_{vg} + 1,212}{850}$$

Equation 12

Key to the Abbreviations:

385.3 = conversion factor (scf / lb-mol)

850 = Constant

900 = Conversion factor (seconds / 15-minute block average)

1,212 = Constant for heating value of hydrogen (H₂)

Area = The unobstructed cross sectional area of the flare tip is the total tip area that Vent Gas can pass through, ft². This area does not include any stability tabs, stability rings, and upper steam or air tubes because Flare Vent Gas does not exit through them. Use design and engineering principles to determine the unobstructed cross sectional area of the Flare tip.

Diam = Effective diameter of the unobstructed area of the flare tip for Flare Vent Gas flow, ft. Determine the diameter as

$$Diam = 2 * \sqrt{Area \div \pi}$$

i = individual component in Vent Gas (unitless)

MWt = molecular weight of the gas at the flow monitoring location (lb / lb-mol)

n = number of components in Vent Gas (unitless)

NHV_{cz} = Net Heating Value of Combustion Zone Gas (BTU / scf)

NHV_i = Net Heating Value of component i according to Table 1 of this Appendix (BTU / scf)

NHV_{measured} = Net Heating Value of Vent Gas stream as measured by monitoring system (BTU / scf)

NHV_{NG} = Net Heating Value of Supplemental Gas to flare during the 15-minute block period (BTU / scf)

NHV_{pg} = Net Heating Value of Pilot Gas (BTU / scf)

NHV_{vg} = Net Heating Value of Vent Gas (BTU / scf)

Q_{a, perimeter} = cumulative vol flow or perimeter assist air during the 15-minute block period (scf)

Q_{cum} = cumulative volumetric flow over 15-minute block average period (scf)

Q_{mass} = mass flow rate (pounds per second)

Q_{NG1} = cumulative vol flow of Supplemental Gas to flare during previous 15-minute block period (scf)

Q_{NG2} = cumulative vol flow of Supplemental Gas to flare during the 15-minute block period (scf)

Q_{pg} = cumulative vol flow of Pilot Gas during the 15-minute block period (scf)

Q_s = cumulative vol flow of Total Steam during the 15-minute block period (scf)

Q_{vg} = cumulative vol flow of Vent Gas during the 15-minute block period (scf)

Q_{vol} = volumetric flow rate (scf per second)

V_{max} = Maximum allowed flare tip velocity (feet per second)

V_{tip} = Flare tip velocity (feet per second)

x_i = concentration of component i in Vent Gas (vol fraction)

x_{H2} = concentration of H_2 in Vent Gas at time sample was input into NHV monitoring system (vol fraction)

Table 1
Individual Component Properties

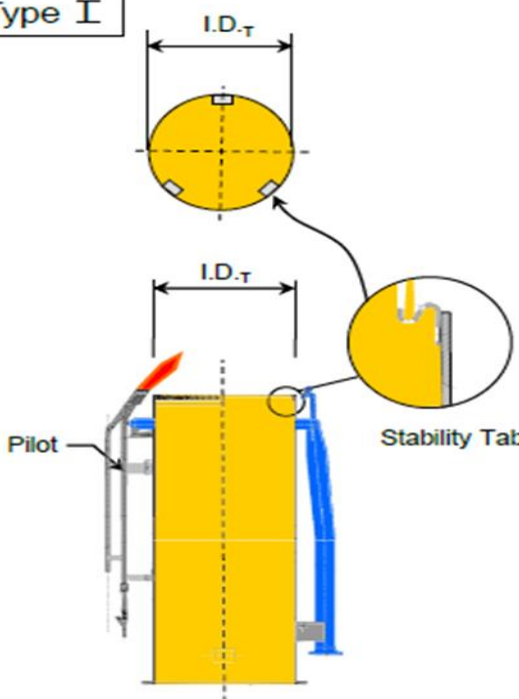
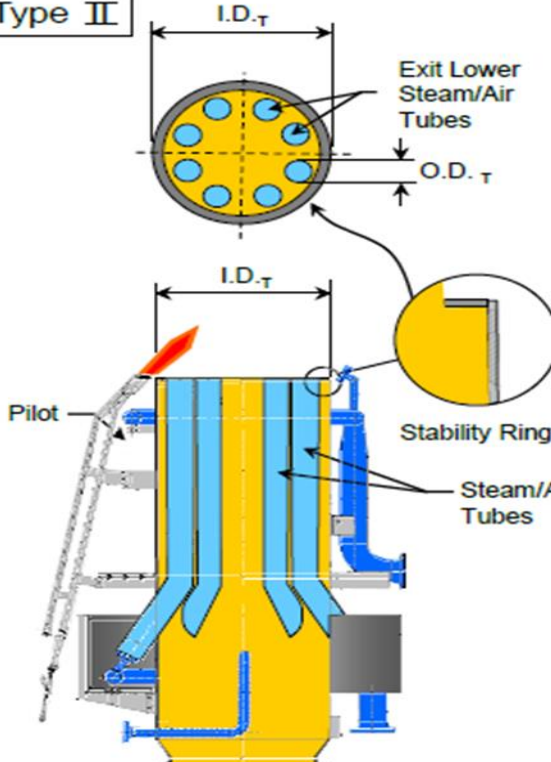
Component	Molecular Formula	MW _i (pounds per pound-mole)	CMN _i (mole per mole)	NHV _i (British thermal units per standard cubic foot)	LFL _i (volume %)
Acetylene	C ₂ H ₂	26.04	2	1,404	2.5
Benzene	C ₆ H ₆	78.11	6	3,591	1.3
1,2-Butadiene	C ₄ H ₆	54.09	4	2,794	2.0
1,3-Butadiene	C ₄ H ₆	54.09	4	2,690	2.0
iso-Butane	C ₄ H ₁₀	58.12	4	2,957	1.8
n-Butane	C ₄ H ₁₀	58.12	4	2,968	1.8
cis-Butene	C ₄ H ₈	56.11	4	2,830	1.6
iso-Butene	C ₄ H ₈	56.11	4	2,928	1.8
trans-Butene	C ₄ H ₈	56.11	4	2,826	1.7
Carbon Dioxide	CO ₂	44.01	1	0	∞
Carbon Monoxide	CO	28.01	1	316	12.5
Cyclopropane	C ₃ H ₆	42.08	3	2,185	2.4
Ethane	C ₂ H ₆	30.07	2	1,595	3.0
Ethylene	C ₂ H ₄	28.05	2	1,477	2.7
Hydrogen	H ₂	2.02	0	1,212 ^A	4.0
Hydrogen Sulfide	H ₂ S	34.08	0	587	4.0
Methane	CH ₄	16.04	1	896	5.0
Methyl-Acetylene	C ₃ H ₄	40.06	3	2,088	1.7
Nitrogen	N ₂	28.01	0	0	∞
Oxygen	O ₂	32.00	0	0	∞
Pentane+ (C5+)	C ₅ H ₁₂	72.15	5	3,655	1.4
Propadiene	C ₃ H ₄	40.06	3	2,066	2.16
Propane	C ₃ H ₈	44.10	3	2,281	2.1
Propylene	C ₃ H ₆	42.08	3	2,150	2.4
Water	H ₂ O	18.02	0	0	∞

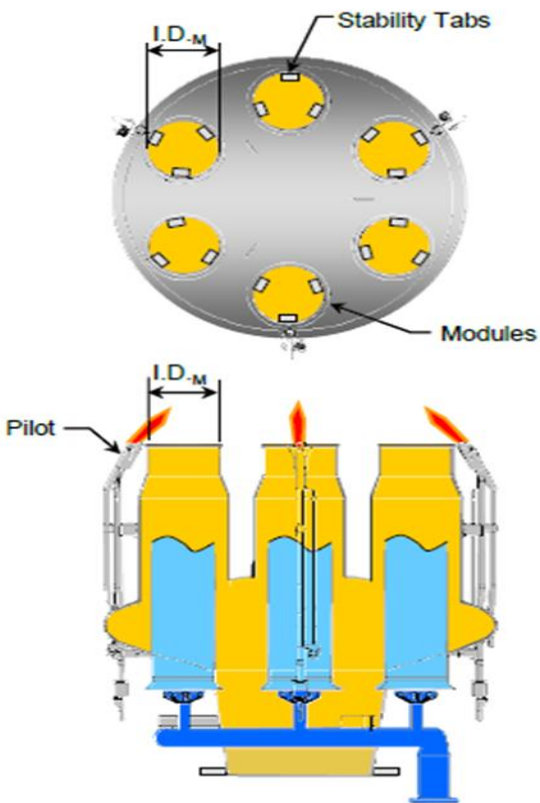
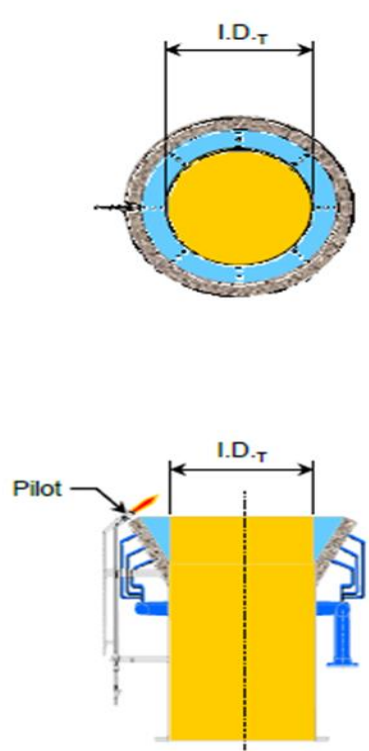
^A The theoretical Net Heating Value for hydrogen is 274 Btu/scf, but for the purposes of this appendix calculation methodology, a Net Heating Value of 1,212 Btu/scf shall be used.

Note: If a component is not specified in this Table 1, the heats of combustion may be determined using any published values where the net enthalpy per mole of offgas is based on combustion at 25 °C and 1 atmosphere (or constant pressure) with offgas water in the gaseous state, but the standard temperature for determining the volume corresponding to one mole of Vent Gas is 20 °C.

Appendix 1.3

Calculating the Unobstructed Cross Sectional Area of Various Types of Flare Tips

<p>Type I</p>  $A_{tip-unob} = \pi(I.D.T)^2/4 - (X_T \cdot A_{ST})$	<p>Type II</p>  $A_{tip-unob} = \pi(I.D.T)^2/4 - A_{ST} - N_T \cdot \pi(O.D.T)^2/4$
<p>Where:</p> <ul style="list-style-type: none"> $A_{tip-unob}$ = Unobstructed Cross Sectional Area of Flare Tip $I.D.T$ = Inside Diameter Flare Tip X_T = Number of Stability Tabs A_{ST} = Area of a Stability Tab 	<p>Where:</p> <ul style="list-style-type: none"> $A_{tip-unob}$ = Unobstructed Cross Sectional Area of Flare Tip $I.D.T$ = Inside Diameter Flare Tip A_{ST} = Area of Stability Ring $O.D.T$ = Outside Diameter of Steam/Air Tubes N_T = Number of Steam/Air Tubes
<p>Example:</p> <ul style="list-style-type: none"> $I.D.T = 41.5$ inches $X_T = 3$ $A_{ST} = 3$ Sq. inches 	<p>Example:</p> <ul style="list-style-type: none"> $I.D.T = 47.5$ inches $A_{ST} = 100$ Sq. inches $O.D.T = 6.5$ inches $N_T = 8$
<p>$A_{tip-unob} = \pi(41.5)^2/4 - (3 \cdot 3)$ $A_{tip-unob} = 1344$ Sq. inches</p>	<p>$A_{tip-unob} = \pi(47.5)^2/4 - 100 - 8 \cdot \pi(6.5)^2/4$ $A_{tip-unob} = 1322$ Sq. inches</p>

Type III	Type IV
 <p>The diagram for Type III shows a top view of a circular flare tip with six modules arranged in a hexagonal pattern. Each module has three stability tabs. A cross-sectional view below shows the internal structure of the modules, with pilot flames indicated at the top of each module. The inside diameter of one module is labeled I.D._M.</p> $A_{tip-unob} = N_M * (\pi * (I.D._M)^2 / 4 - X_T * A_{ST})$	 <p>The diagram for Type IV shows a top view of a single large circular flare tip. A cross-sectional view below shows the internal structure with a pilot flame indicated at the top. The inside diameter of the flare tip is labeled I.D._T.</p> $A_{tip-unob} = \pi * (I.D._T)^2 / 4$
<p>Where: $A_{tip-unob}$ = Unobstructed Cross Sectional Area of Flare Tip I.D._M = Inside Diameter of One Tip Module N_M = Number of Modules X_T = Number of Stability Tabs per Module A_{ST} = Area of a Stability Tab</p>	<p>Where: $A_{tip-unob}$ = Unobstructed Cross Sectional Area of Flare Tip I.D._T = Inside Diameter of Flare Tip</p>
<p>Example: I.D._M = 17 inches N_M = 6 X_T = 3 A_{ST} = 3 Sq. inches</p>	<p>Example: I.D._T = 41.5 inches</p>
<p>$A_{tip-unob} = 6 * (\pi * (17)^2 / 4 - 3 * 3)$ $A_{tip-unob} = 1308 \text{ Sq. inches}$</p>	<p>$A_{tip-unob} = \pi * (41.5)^2 / 4$ $A_{tip-unob} = 1353 \text{ Sq. inches}$</p>

Date: September 18, 2019

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6860 and PSDTX1464

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
102	Hyper Compressor Vent	VOC	0.50	2.20
104	Spin Dryer	PM	(7)	(7)
		PM ₁₀	(7)	(7)
		PM _{2.5}	(7)	(7)
		VOC	(6)	(6)
202	Hyper Compressor Vent	VOC	0.50	2.20
204	Spin Dryer	PM	(7)	(7)
		PM ₁₀	(7)	(7)
		PM _{2.5}	(7)	(7)
		VOC	(6)	(6)
301	Hyper Compressor Vent	VOC	0.50	2.20
307	Spin Dryer	PM	0.34	1.10
		PM ₁₀	0.34	1.10
		PM _{2.5}	0.34	1.10
		VOC	(6)	(6)
502	MSR Heater B-502	CO	0.02	0.09
		NO _x	0.02	0.11
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	0.01	0.01
		VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
601	Dust Collector	PM	0.14	0.60
		PM ₁₀	0.14	0.60
		PM _{2.5}	0.14	0.60
602A,603A	Hopper Vents (8)	PM	0.29	0.69
		PM ₁₀	0.29	0.69
		PM _{2.5}	0.29	0.69
602B	Hopper Vent	PM	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
603B	Hopper Vent	PM	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
604	Line 1 Blend Silo Dust Collector	PM	1.08	4.75
		PM ₁₀	1.08	4.75
		PM _{2.5}	1.08	4.75
		VOC	(6)	(6)
605	Line 2 Blend Silo Dust Collector	PM	1.08	4.75
		PM ₁₀	1.08	4.75
		PM _{2.5}	1.08	4.75
		VOC	(6)	(6)
606	Cyclone	PM	0.17	0.75
		PM ₁₀	0.17	0.75
		PM _{2.5}	0.17	0.75
		VOC	(6)	(6)

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
607	Cyclone	PM	0.17	0.75
		PM ₁₀	0.17	0.75
		PM _{2.5}	0.17	0.75
		VOC	(6)	(6)
608	Cyclone	PM	0.51	2.25
		PM ₁₀	0.51	2.25
		PM _{2.5}	0.51	2.25
		VOC	(6)	(6)
609	Cyclone	PM	0.51	2.25
		PM ₁₀	0.51	2.25
		PM _{2.5}	0.51	2.25
		VOC	(6)	(6)
612-D645	Slop Tank	VOC	0.05	0.01
612-D716	Diesel Tank	VOC	1.10	0.01
612-D716A	Diesel Tank	VOC	1.10	0.01
612-F102	Coolant Tank	VOC	0.03	0.01
612-F108	Oil Tank	VOC	0.03	0.01
612-F109	Oil Tank	VOC	0.03	0.01
612-F670	OMS Tank	VOC	0.64	0.01
612-F706	Oil Tank	VOC	15.00	3.03
612-F801	Gasoline Tank	VOC	5.20	0.82
612-F802	Diesel Tank	VOC	0.01	0.01
616A,617A, 625A	Hopper Vents (9)	PM	1.00	3.75
		PM ₁₀	1.00	3.75
		PM _{2.5}	1.00	3.75

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
616B	Hopper Vent	PM	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
617B	Hopper Vent	PM	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
620	Flotriator Cyclone	PM	0.88	3.87
		PM ₁₀	0.88	3.87
		PM _{2.5}	0.88	3.87
		VOC	(6)	(6)
621	Scalperator Cyclone	PM	0.77	3.38
		PM ₁₀	0.77	3.38
		PM _{2.5}	0.77	3.38
		VOC	(6)	(6)
625B	Line 3 Rerun Vacuum Hopper	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
626A and 626C	Line 3 Masterbatch Hopper (10)	PM	0.47	1.10
		PM ₁₀	0.47	1.10
		PM _{2.5}	0.47	1.10
626B	Line 3 Masterbatch Hopper	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
627	Line 3 Blend Silos	PM	0.44	0.23
		PM ₁₀	0.44	0.23
		PM _{2.5}	0.44	0.23
		VOC	(6)	(6)

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
628	Line 3 Blend Silos	PM	0.44	0.23
		PM ₁₀	0.44	0.23
		PM _{2.5}	0.44	0.23
		VOC	(6)	(6)
631	Lines 1, 2, and 3 Rerun Filter Receiver	PM	0.16	0.71
		PM ₁₀	0.16	0.71
		PM _{2.5}	0.16	0.71
632	MB and Rerun Cyclone Dust Collector	PM	0.23	1.02
		PM ₁₀	0.23	1.02
		PM _{2.5}	0.23	1.02
701	Flare	CO	477.61	155.00
		NO _x	114.44	26.40
		SO ₂	0.11	0.37
		VOC	392.49	52.34
702	Boiler B-701	CO	3.13	
		NO _x	3.73	
		PM	0.28	
		PM ₁₀	0.28	
		PM _{2.5}	0.28	
		SO ₂	0.02	
		VOC	0.71	

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
703	Boiler B-701A	CO	3.13	
		NO _x	3.73	
		PM	0.28	
		PM ₁₀	0.28	
		PM _{2.5}	0.28	
		SO ₂	0.02	
		VOC	0.71	
704	Boiler B-701B	CO	3.13	
		NO _x	3.73	
		PM	0.28	
		PM ₁₀	0.28	
		PM _{2.5}	0.28	
		SO ₂	0.02	
		VOC	0.71	
702, 703, and 704	Boilers B-701, B-701A, and B-701B (11)	CO		30.84
		NO _x		36.71
		PM		2.79
		PM ₁₀		2.79
		PM _{2.5}		2.79
		SO ₂		0.22
		VOC		4.31
714	Wastewater Area Fugitives (5)	VOC	0.01	0.01
985, 986, 987, and 990	Degreasers (12)	VOC	0.84	0.80

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSS	See Attachment C	CO	0.83	0.01
		NO _x	0.98	0.01
		PM	0.19	0.50
		PM ₁₀	0.19	0.50
		PM _{2.5}	0.19	0.50
		SO ₂	0.01	0.01
		VOC	279.34	4.97
HPFUGEM	High Pressure Unit Fugitives (5)	VOC	16.66	72.99
618	Transfer Cyclone	PM	2.73	11.98
		PM ₁₀	2.73	11.98
		PM _{2.5}	2.73	11.98
		VOC	97.91	271.36

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification – either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)

CO	- carbon monoxide
NO _x	- total oxides of nitrogen
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
SO ₂	- sulfur dioxide
VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Total residual VOC emissions from EPNs 104, 204, 307, 604, 605, 606, 607, 608, 609, 618, 620, 621, 627, and 628 are listed under EPN 618.
- (7) Total spin dryer particulate emissions from EPNs 104, 204, and 307 are listed under EPN 307.
- (8) Total emissions for EPNs 602A and 603A.
- (9) Total emissions for EPNs 616A, 617A, and 625A.
- (10) Total emissions for EPNs 626A and 626C.
- (11) Total emissions for EPNs 702, 703, and 704.
- (12) Total emissions for EPNs 985, 986, 987, and 990.

Date: July 31, 2020